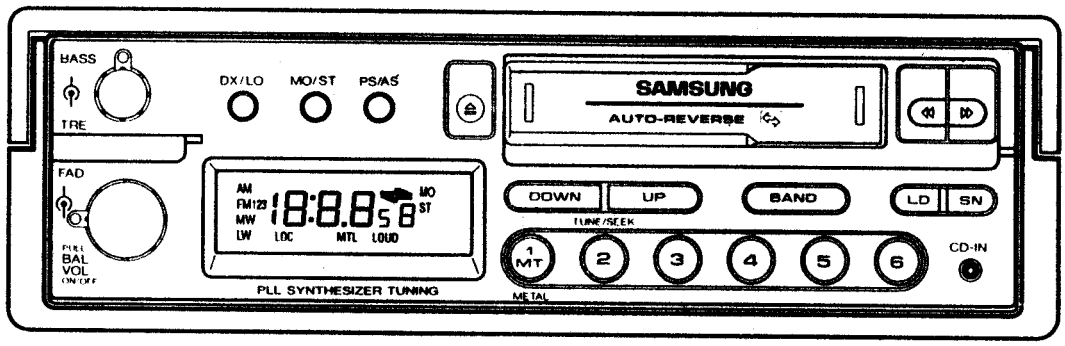
SAMSUNG Electronics

SERVICE MANUAL

MODEL: Q4800D/L/T

DIGITAL STEREO WITH AUTO REVERSE CASSETTE AND BUILT-IN HIGH POWER AMP



SPECIFICATION

GENERAL

Load Impedance ..... 4 ohm (Power Output)
..... 10 Kohm (Pre-Out)
Power Supply ..... 14.4 V DC
Power Output (10% T.H.D. Ref. 1KHz) 20W
Pre-Output Voltage ..... 500 mV at 10 K
Dimensions (W x H x D) ..... Chassis : 178 x 50 x 153 mm
..... Nose : 187 x 58 x 18 mm
Weight ..... Approx. 2.5 Kg

FM

Intermediate Frequency ..... 10.7 MHz
Frequency Range ..... 87.5 to 108MHz
Usable Sensitivity (98.1MHz) ..... 2 dB μ
Limiting Sensitivity (98. 1MHz) ..... 6 dB μ
S/N Ratio (60 dB, 98.1MHz) ..... 55 dB
Image Rejection (at 106.1MHz) ..... 65 dB
IF Rejection (at 90.1MHz) ..... 70 dB
Distortion (Input 1mV, 98.1MHz) 0.5%
Frequency Response (Ref. 1KHz)
30Hz : 0 + 3 dB
16KHz : 0 + 3 dB
Stereo Separation (at 1KHz) ..... 30 dB

MW

Intermediate Frequency 450KHz
Frequency Range ..... 522 to 1620KHz
Sensitivity 20 dB ..... 28 dB μ
S/N Ratio (999KHz) ..... 50 dB
Image Rejection (1,404KHz) ..... 65 dB
IF Rejection (603KHz) ..... 60 dB
Distortion (999KHz) 0.5%
Frequency Response (999KHz, Ref 1KHz)
..... 60Hz : 0 ± 6 dB
..... 2.2KHz : 0 ± 6 dB

LW6

Intermediate Frequency 450KHz
Frequency Range ..... 144 to 281KHz
Sensitivity 20 dB ..... 30 dB μ
S/N Ratio (207KHz) ..... 50 dB
Image Rejection (270KHz) ..... 65 dB
IF Rejection (207KHz) ..... 60 dB
Distortion (207KHz) 0.5%

TAPE PLAYER

Wow & Flutter (JIS, WRMS/MTT-111) 0.1%
Tape Speed (MTT-111) ..... 4.75cm/sec. +2to-1%
S/N Ratio (Ref. 1KHz)
MTT112/MTT5521 : 52 dB
Distortion (MTT-118) 1.0%
Frequency Response
(Ref. 1KHz, ±3 dB)
100Hz to 10KHz (Mtt-256)
Separation (MTT-141) ..... 40 dB
Crosstalk (MTT-121) ..... 45 dB
FF & REW Time (C-60) ..... 190 sec

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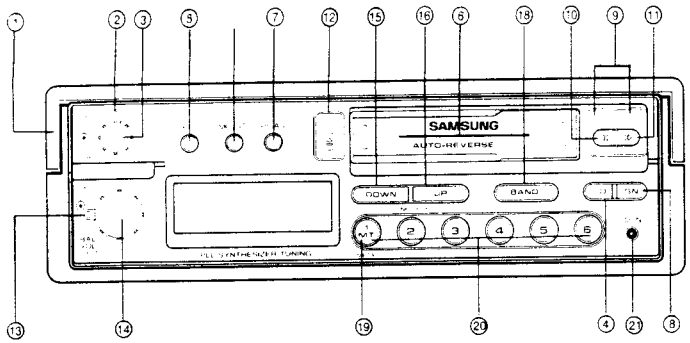
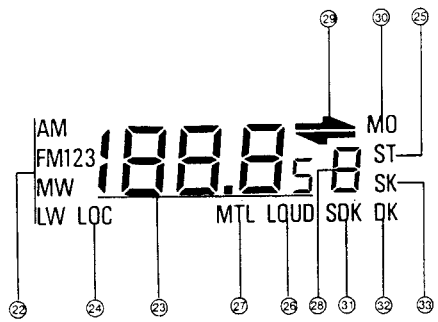
GENERAL INFORMATION

FEATURES

1. **STANDARD DIN SIZE.**
2. **PLL FREQUENCY TUNER (Phase-Locked Loop)**
3. **PRESETTING OF 30 STATIONS**
   FM1 : 6, FM2 : 6, FM3 : 6, MW : 6, LW : 6 ("D" & "L" BAND ONLY)
   FM1 : 6, FM2 : 6, FM3 : 6, AM : 6 ("T" BAND ONLY)
4. **LOCAL/DISTANCE SWITCH**
5. **STEREO/MONO SWITCH**
6. **AUTO STORE SYSTEM**
7. **SCAN OR MANUAL STATIONS SEARCH**
8. **LOUDNESS SWITCH**
9. **TAPE DIRECTION INDICATOR**
10. **REMOVABLE DASH-PANEL**
    The sturdy and exclusive design of the dash-panel make it easy to remove your CAR-STEREO without losing its memory content.
11. **NIGHT ILLUMINATION**
12. **STEPPED VOLUME CONTROL**
13. **METAL TAPE SWITCH**
    This Switch makes the necessary equalization for replay of metal tape.
14. **FADER CONTROL**
    This control makes it possible to balance the sound between front and rear speakers. If only front speakers are connected, turn this switch clockwise.
15. **PRE AMPLIFIED OUTPUT**
    The unit is provided with preamplified output which allows the unit to enhance sound by Connection of equalyzer or an electronic crossover as well as external amplifier.

■ LOCATION OF CONTROLS





PLL SYNTHESIZER TUNER DISPLAY

CONTROLS AND INDICATORS

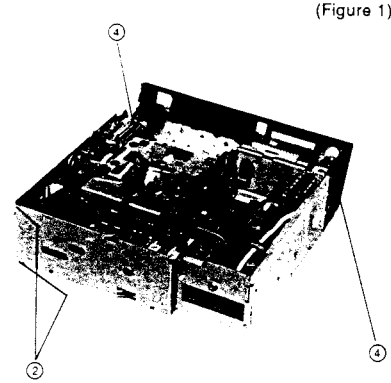
① RELEASE BUTTON FOR HANDLE OF REMOVABLE BRACKET.
② BASS CONTROL(BASS)
③ TREBLE CONTROL(TREBLE)
④ LOUDNESS BUTTON(LOUD)
⑤ LOCAL DISTANCE BUTTON(LOC/DX)
⑥ TAPE DOOR
⑦ PRE-SET SCAN/AUTO STORE BUTTON(PS/AS)
⑧ SCAN BUTTON(SCAN)
* "D" VERSION ; SDK BUTTON (SDK)
⑨ PROGRAM/FAST FORWARD AND REWIND OF THE TAPE(PROGRAM) (◀◀ ▶▶)
⑫ CASSETTE EJECT BUTTON(▲)
⑬ FADER CONTROL(FAD)
⑭ POWER ON/OFF/VOLUME(VOL)/PULL BALANCE
⑮ MANUAL DOWN BAND SEARCH BUTTON(DOWN)
⑯ MANUAL UP BAND SEARCH BUTTON(UP)
⑰ MONO/STEREO BUTON (MO/ST)
⑱ BAND SELECTION BUTTON (BAND)
⑲ METAL TAPE BUTTON (MT)
⑳ STATION MEMORY PRE-SET BUTTONS (1-6)
㉒ TUNER BAND INDICATOR (FM123, MW, LW, AM)
㉓ FREQUENCY INDICATOR
㉔ LOCAL INDICATOR (LOC)
㉕ FM STEREO INDICATOR (ST)
㉖ LOUDNESS INDICATOR (LOUD)
㉗ METAL INDICATOR (MTL)
㉘ MEMORY LOCATION INDICATOR (1-6)
㉙ TAPE DIRECTION INDICATOR (◀)
㉚ MONO INDICATOR (MO)
㉛ SDK SWITCH INDICATOR (SDK) : "D" VERSION ONLY
㉜ DK INDICATOR (DK) : "D" VERSION ONLY
㉝ SK INDICATOR (SK) : "D" VERSION ONLY

■ DISASSEMBLY PROCEDURE

1. BRACKET HANDLE, TOP & BOTTOM CHASSIS
(1) Remove 2 screws ① from both sides of panel (Flg 1).
(2) Use flat screw driver and pry up at point ② (Fig 2)

(Figure 1)

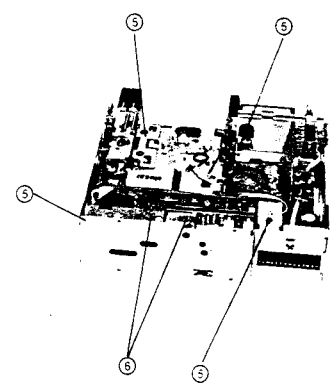
2. FRONT PANEL
(1) Pull off 4 control knobs ③ with your hand. (Fig 1)
(2) Pry apart with a screw driver at point ④ (Fig 2)



(Figure 2)

3. CASSETTE DECK
(1) Remove 4 screws ⑤ (Fig 3)

4. FM PCB and SWITCHING PCB
(1) Remove solder from area ⑥ in the main PCB (Figure 3)
(2) Remove FM PCB.
(3) Remove switching PCB.



(Figure 3)

■ DESCRIPTION OF MICOM PIN AND LCD SEGMENT

IC601 : μPD1719G-011 (DTS CONTROLLER)

PIN NO	PIN-NAME	PIN-FUNCTION
2,3	EO_1, EO_2	error output of PLL
4.8	V_{DD1}, V_{DD2}	power supply (+ 5V)
5	MW_{IN} (VCO)	prescaler input port during MW mode (0.3Vp-p MIN)
6	FM_{IN} (VCO)	prescaler input port during FM mode (0.3Vp-p MIN)
7	Chip enable	"H" level : RADIO, TAPE CD ON Mode "L" level : RADIO, TAPE, CD OFF Mode
9	AGCC	"H" level : AUTO-TUNING Mode
10	LOC	output port for local Mode
11	MODE	"H' level : RADIO ON Mode "L" level : TAPE CD ON Mode
12, 13	$BAND_1$, $BAND_2$	output PIN for FM/MW/LW radio band change-over control
14, 15	RADIO MUTE	output pin for muting signal
16. 17	MW/FM IF	input pin for MW/FM IF selection
18	MONO	output pin for MONO
19	LOUD	output pin for LOUDNESS
20	AMS	output pin for AMS (Auto MUSIC SEARCH)
21	MTL	output pin for METAL ON TAPE mode
22	NR	output pin for DOLBY ON TAPE Mode
23	power	output pin for change of illumination
24, 25	X_0, X_1	A quarts oscillator (4.5MHz) for reference frequency
26, 58	GND	GND (0V)
28 ~ 57	LCD	output pin for operating LCD with 1/2 Bias, 1/2 Duty.
59 – 64	key	INPUT port for inputting key matrix

LCD SEGMENT DESCRIPTION

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COM 1	COM1	•	LW	•	•	◄	DOB	DK	SK	Cg	ST	Cc	Cb	S	LOUD
COM 2	•	COM2	MW	MS	LOC	►	Ca	•	SDK	Ce	MO	Cd	Cf	MTL	la
IC NO	56	57	55	37	31	28	35	38	29	33	30	32	34	39	40

PIN NO	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
COM 1	1b	1g	1c	FM	2b	2g	2c	•	3b	3g	3c	4c	-	2	-
COM 2	1f	1e	1d	2a	2f	2e	2d	3a	3f	3e	3d	4b	3	1	AM
IC NO	43	42	41	44	47	46	45	48	51	50	49	52	53	54	55

■ ADJUSTMENT PROCEDURE

1. TAPE PLAYER SECTION

(1) Connection

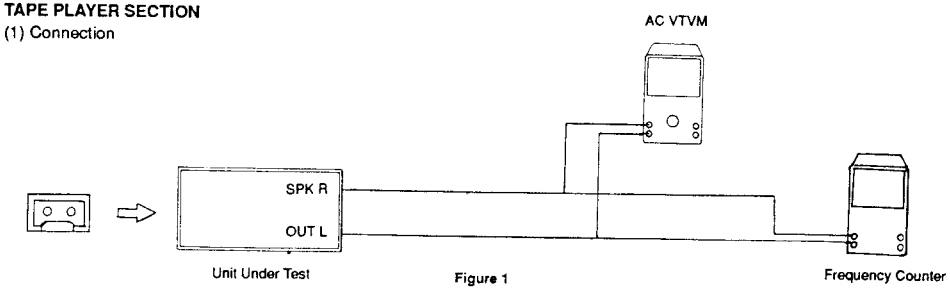


Figure 1

(2) Control Setting

Power Switch.....ON
Fader Control.....Mechanical center
Balance Control.....Mechanical center
Treble/Bass Control.....Mechanical center
Other Switch.....OFF

(3) Adjustment procedures

Step	ITEM	Test Tape	Connection	Adjustment Point	Result & Remark
1	Head Azimuth Adjustment	MTT-114N (10 kHz)	Figure 1	TP304 TP303 (Figure 8)	Adjust for Max. and same level output. in Normal & Reverse mode.
2	Tape Speed Adjustment	MTT-111	Figure 1	TP305 (Figure 9)	2990-3020KHz

2. MW/LW SECTION

(1) Dummy Antenna Circuit

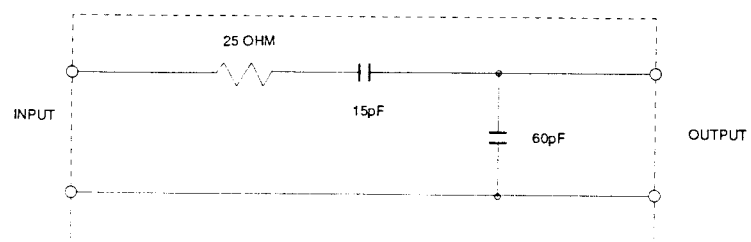


Figure 2

(2) Connection

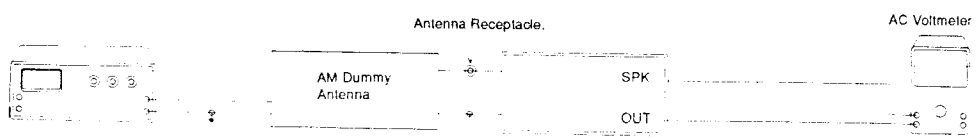


Figure 3

(3) Control Settings

Power Switch.....ON
FM/MW Switch.....MW
LO/DX Switch.....DX
Others.....OFF

Volume Control.....Max. Position
Treble, Bass Control.....Mech. Center
Balance Control.....Center Position
Fader Control.....Front Position

(4) Adjustment Procedures

Step	ITEM	Connection	SSG Frequency	Dial Setting	Adjustment point	RESULT & REMARK
1	LOW Freuqency cover	Figure 3	522KHz/144KHz 30 dBμ dev. 30%	522KHz/ 144KHz	MW OSC/LW OSC (Figure 10) Audio output	Adjust MW/LW OSC coil MW OSC/LW OSC for maximum output
2	Tracking	Figure 3	603KHz/207KHz 30 dBμ dev. 30%	603KHz/ 207KHz	MW RF1/LW RF1 (Figure 10) Audio output	Adjust MW RF1/LW RF1 For maximum output.

3. FM/SDK SECTION

(1) Dummy Antenna Circuit

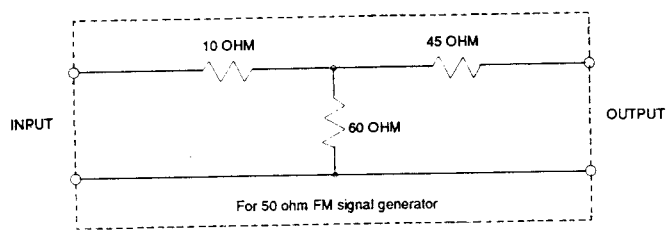


Figure 4

(2) Connections

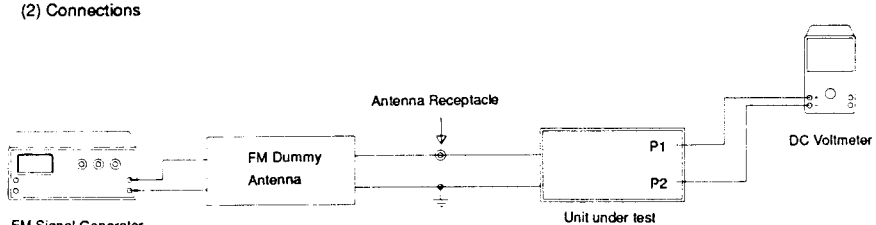


Figure 5

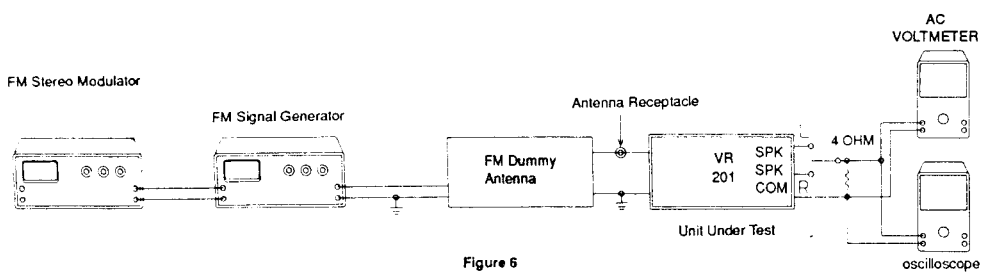


Figure 6

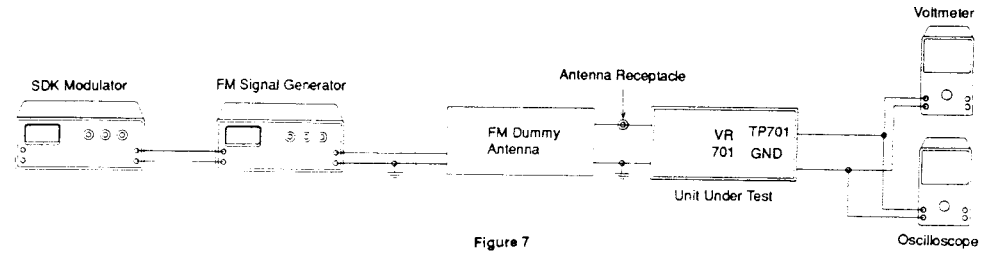


Figure 7

(3) Control Settings

Power Switch.....ON
FM.....FM
Others.....OFF
Balance Control.....Mech. Center
Treble/Bass control.....Mech. Center

Fader Control.....Front position
LO/DX Switch.....DX
ST. Switch.....ON
SDK Switch.....ON

(4) Adjustment procedures

Step	ITEM	Connection	SSG Frequency	Dial Setting		Result & Remark
1	IF Adjustment	Figure 5	98. MHz 60 dB μ dev. 22.5KHz	98 MHz	L201 (FM PCB)	2) Adjust P1, P2 for DC Voltmeter indicates 0V ± 20mV
2	Stereo Separation Adjustment	Figure 6	98. MHz 60 dB μ	98 MHz	VR201 (FM PCB)	Adjust VR201 for Proper separation between "R" & "L" channel
3	SDK Adjustment	Figure 7	98 MHz 60 dB μ (SDK mode) (SK, DK, BK : ON)	98 MHz	VR701	• Set SDK switch to on. • Adjust VR701 for maximum sign wave on the oscilloscope.
						• Check if the "DK" segment in the LCD Light on.

■ ADJUSTMENT POINT LOCATIONS.

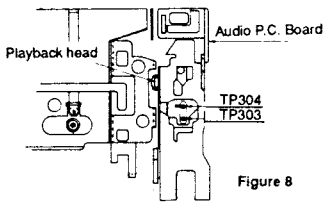


Figure 8

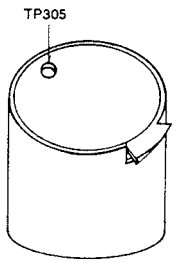


Figure 9

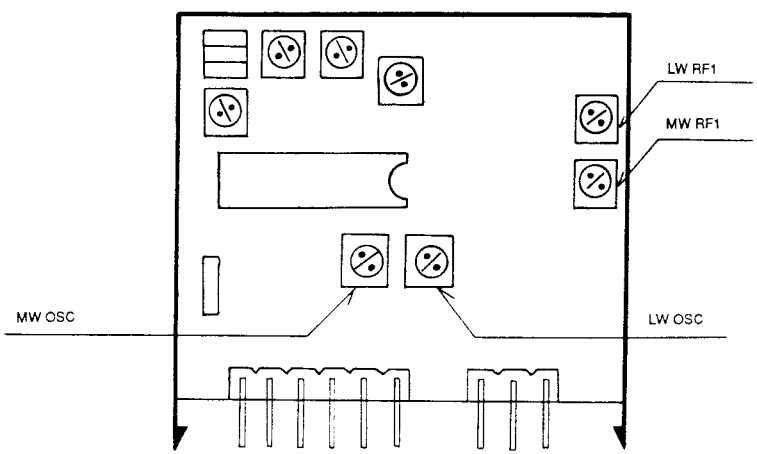
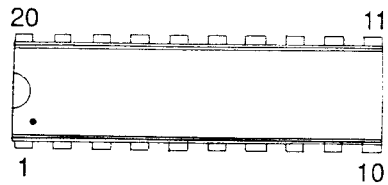
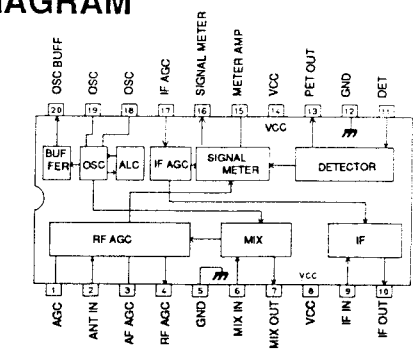


Figure 10

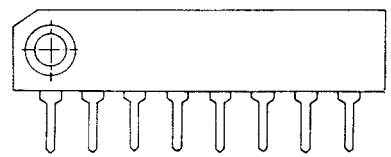
■ IC & TRANSISTOR BLOCK DIAGRAM

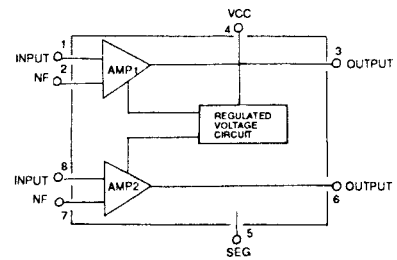
LA1135



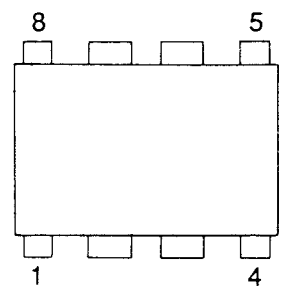


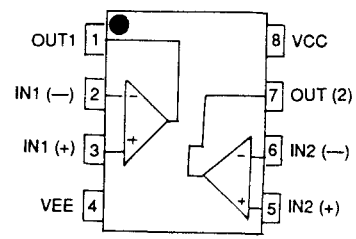
LA3161 IC401(EQ)



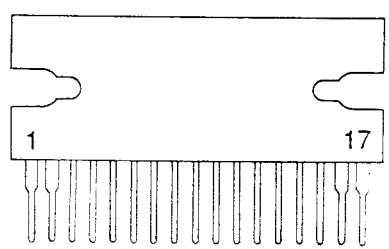


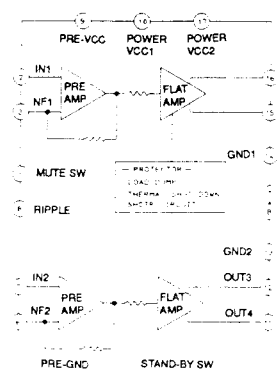
MC4558 : IC302 (OP AMP)

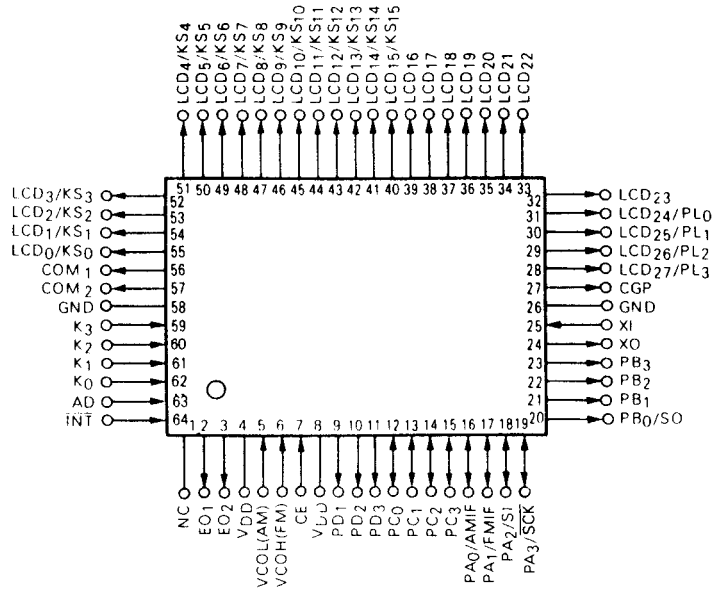


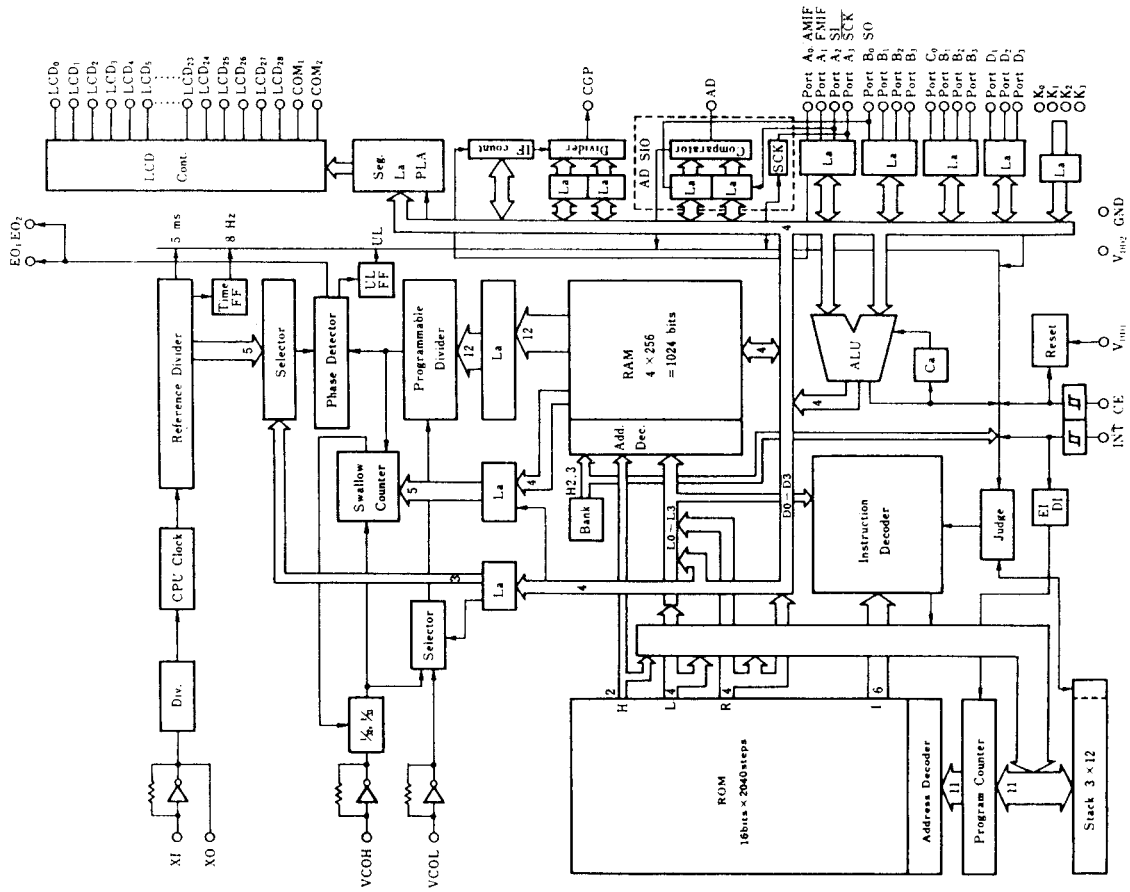


TA8210H : IC303 (POWER MAIN)

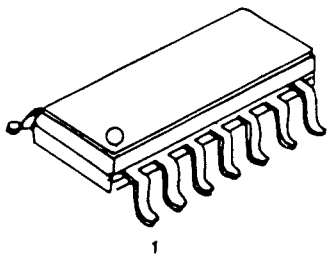


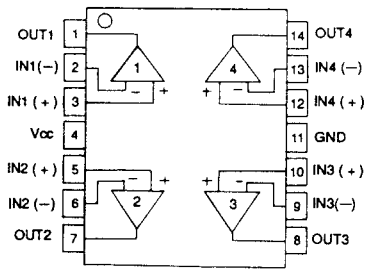



LCD4/KS4
LCD5/KS5
LCD6/KS6
LCD7/KS7
LCD8/KS8
LCD9/KS9
LCD10/KS10
LCD11/KS11
LCD12/KS12
LCD13/KS13
LCD14/KS14
LCD15/KS15
LCD16
LCD17
LCD18
LCD19
LCD20
LCD21
LCD22
LCD3/KS3
LCD2/KS2
LCD1/KS1
LCD0/KS0
COM1
COM2
GND
K3
K2
K1
K0
AD
INT
LCD23
LCD24/PL0
LCD25/PL1
LCD26/PL2
LCD27/PL3
CGP
GND
XI
XO
PB3
PB2
PB1
PB0/SO
NC
EO1
EO2
VDD
VCOL(AM)
VCOH(FM)
CE
PD0
PD1
PD2
PD3
PC0
PC1
PC2
PC3
PA0/AMIF
PA1/FMIF
PA2/SI
PA3/SCK

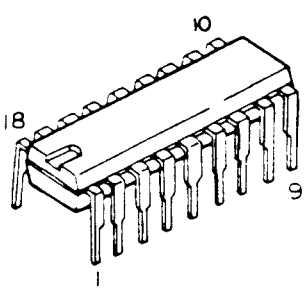

LCD Cont.
Seg. La PLA
Divider
AD SIO
Comparator
SCK
CGP
AD
Reference Divider
Selector
Phase Detector
Programmable Divider
RAM
4 × 256
= 1024 bits
ALU
Reset
Swallow Counter
Bank
Instruction Decoder
Judge
CPU Clock
Div.
Selector
ROM
16bits × 2040steps
Address Decoder
Program Counter
Stack 3 × 12
XI
XO
VCOH
VCOL
INT
CE
GND

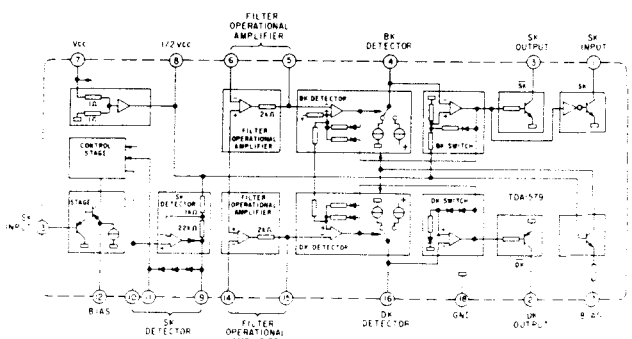
IC2902 IC702 (OP AMP)



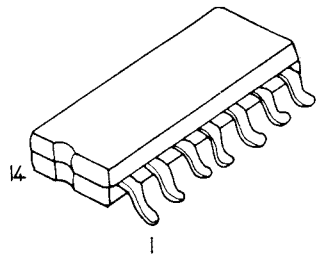


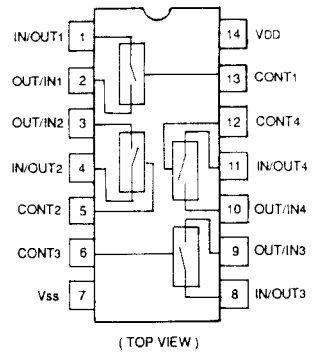
TDA 1579 IC701 (SDK)





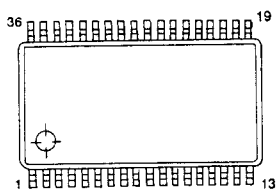
TC4066 BP IC703, IC300 (SWITCHING)

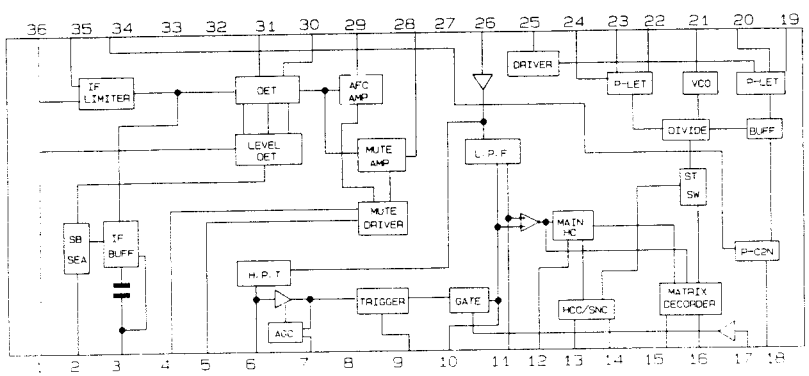




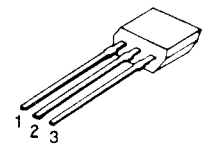
(TOP VIEW)

LA1861M IC201 (FM PROCESSOR)





Transistors



1. EMITTER 2. COLLECTOR 3. BASE

KSA1175 : Q801

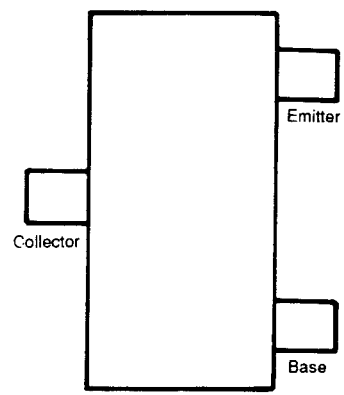
KSC2785 : Q103, 606, 601, 602, 307, 302, 306R/L, 822R/L
Q301R/L

KSR1203 : Q814, 815, 816, 817, 819, 809, 251, 253, 104, 803, 805, 608
605, 303, 304, 822, 614, 618, 610
612, 710, 401R/L, 404, 405, 603

KSR1210 : Q820R/L, 821R/L

KSR2203 : Q813, 252, 808, 818, 804

KSR2204 : Q607, 609, 611, 613, 617



(Top View)

KSR1103 : Q810, 705, 706, 203, Q305L/R

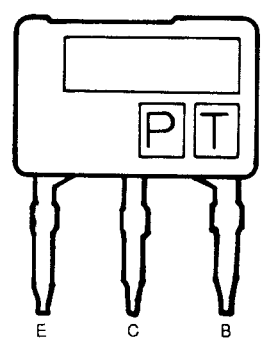
KSR1111 : Q206, 207

KSC1623 : Q204

KSR2103 : Q205

KSC2715 : Q201

KDS184 : D651, 652, 653, 654, 655, 656, 202



B1237 : Q403, 802

D1858 : Q806, 812

■ IC TR VOLTAGE CHARTS

IC601 (UPC1719G-011)

PIN	VOLT	PIN	VOLT
1	0	33	2.2
2	0	34	
3	0	35	2.2
4	5.0	36	2.2
5	0	37	2.2
6	0	38	2.2
7	5.0	39	2.2
8	5.0	40	2.2
9	0	41	2.2
10	0	42	2.2
11	4.8	43	2.2
12	4.8	44	2.2
13	0	45	2.2
14	0	46	2.2
15	0	47	2.2
16	0	48	2.2
17	0	49	2.2
18	0	50	2.2
19	0	51	2.2
20	0	52	2.2
21	0	53	2.2
22	0	54	2.2
23	0	55	2.2
24	2.2	56	2.2
25	2.2	57	2.2
26	0	58	2.2
27	0	59	2.2
28	2.2	60	2.2
29	2.2	61	2.2
30	2.2	62	2.2
31	2.2	63	2.0
32	2.2	64	5.0

IC201 (LA1861M)

PIN	VOLT	PIN	VOLT
1	1.4	19	4.4
2	2.4	20	3.4
3	0	21	3.4
4	0	22	3.4
5	0	23	3.4
6	2.8	24	4.4
7	0	25	0
8	0	26	4.5
9	0	27	0
10	4.8	28	4.0
11	4.8	29	5.0
12	3.6	30	4.0
13	0	31	3.8
14	0	32	2.0
15	0	33	3.8
16	0	34	3.4
17	4.8	35	3.4
18	0	36	3.8

TRANSISTOR

	E	B	C
Q101	0	5	7
Q102	0	0.7	4.8
Q201	2	3.8	8.0
Q202	0	4.8	0.6
Q203	0	0.6	9.0
Q204	9.2	9.0	8.0
Q301	0	5.0	4.0
Q302	8.5	9.1	12
Q303	0	3.0	0.6
Q307	8.5	9.1	12
Q306L	0	0.8	5.0
Q306R	0	0.8	5.0
Q501	10	12	14
Q502	12.6	14	13
Q601	0	1.0	1.4 7.8
Q602	0.4	1.0	1.4 7.8
Q603	0	4.8	5.2
Q604	0	4.8	5.2
Q606	5.0	5.6	14
Q801	9.0	7.8	8.4
Q802	9.0	7.8	8.4
Q807	9.8	10	14

IC303 (TA8210AH)

PIN	VOLT	PIN	VOLT
1	3.4	10	13.8
2	4.7	11	5.7
3	4.7	12	5.7
4	5.1	13	0
5	0	14	0
6	4.8	15	5.7
7	4.8	16	5.7
8	4.8	17	13.8
9	12.7		

IC702 (LM2902)

PIN	VOLT	PIN	VOLT
1	7.1	8	0.5
2	3.5	9	5.1
3	5.2	10	8.4
4	8.3	11	0
5	5.1	12	2.8
6	0.5	13	6.6
7	7.1	14	0.6

IC401 (LA3161)

PIN	VOLT	PIN	VOLT
1	2.0	5	0
2	1.4	6	3
3	4.2	7	0.7
4	11.4	8	1.3

IC302 (MC4558C)

PIN	VOLT	PIN	VOLT
1	0	5	8.0
2	2.7	6	2.7
3	2.7	7	2.7
4	2.7	8	2.7

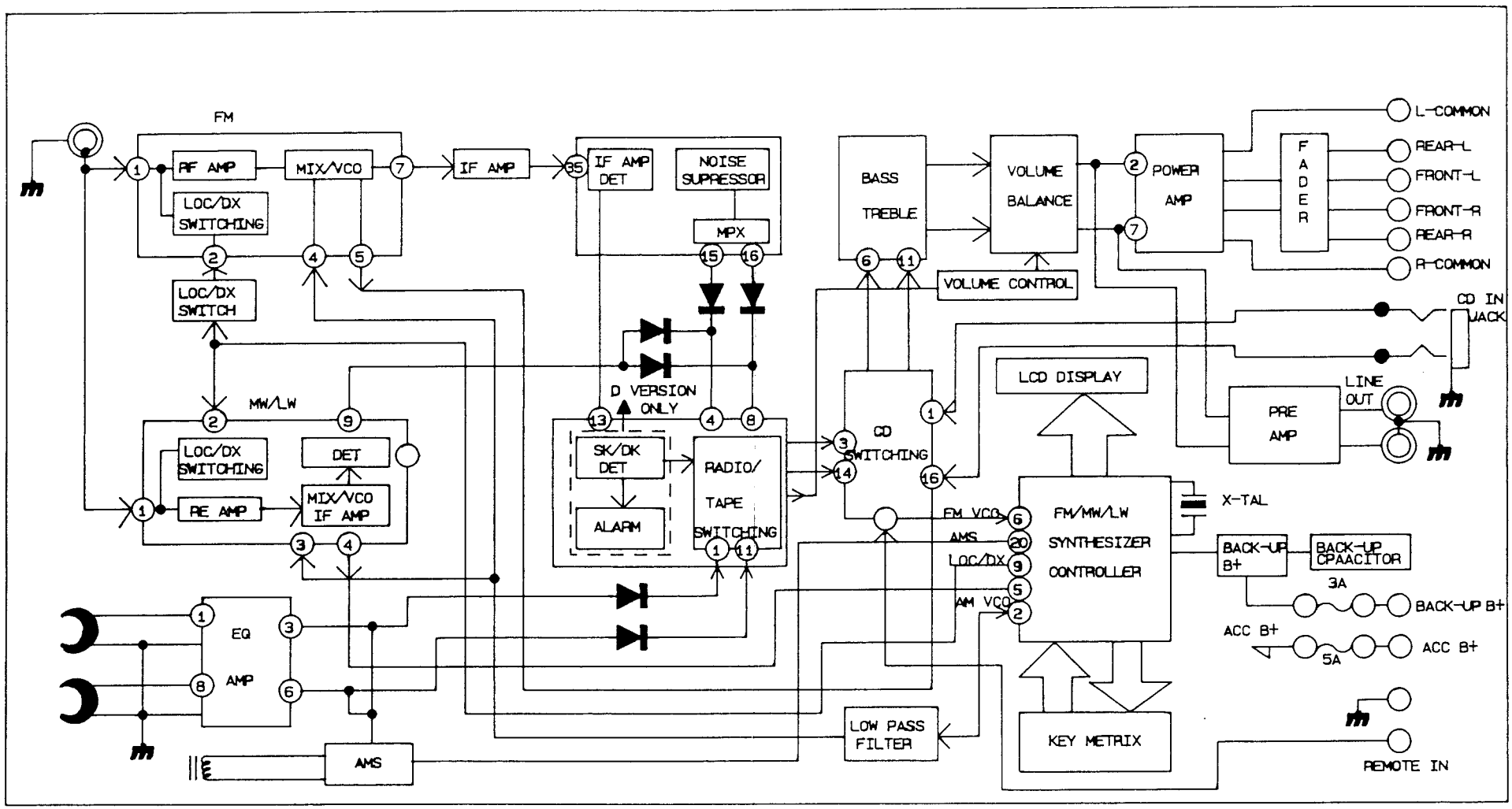
IC300 (TC4066BP)
IC703 (TC4066BP)

PIN	VOLT	PIN	VOLT
1	0	8	0
2	0.8	9	0.5
3	0.8	10	0.5
4	0.8	11	0.5
5	6.0	12	0
6	6.0	13	0
7	0	14	5

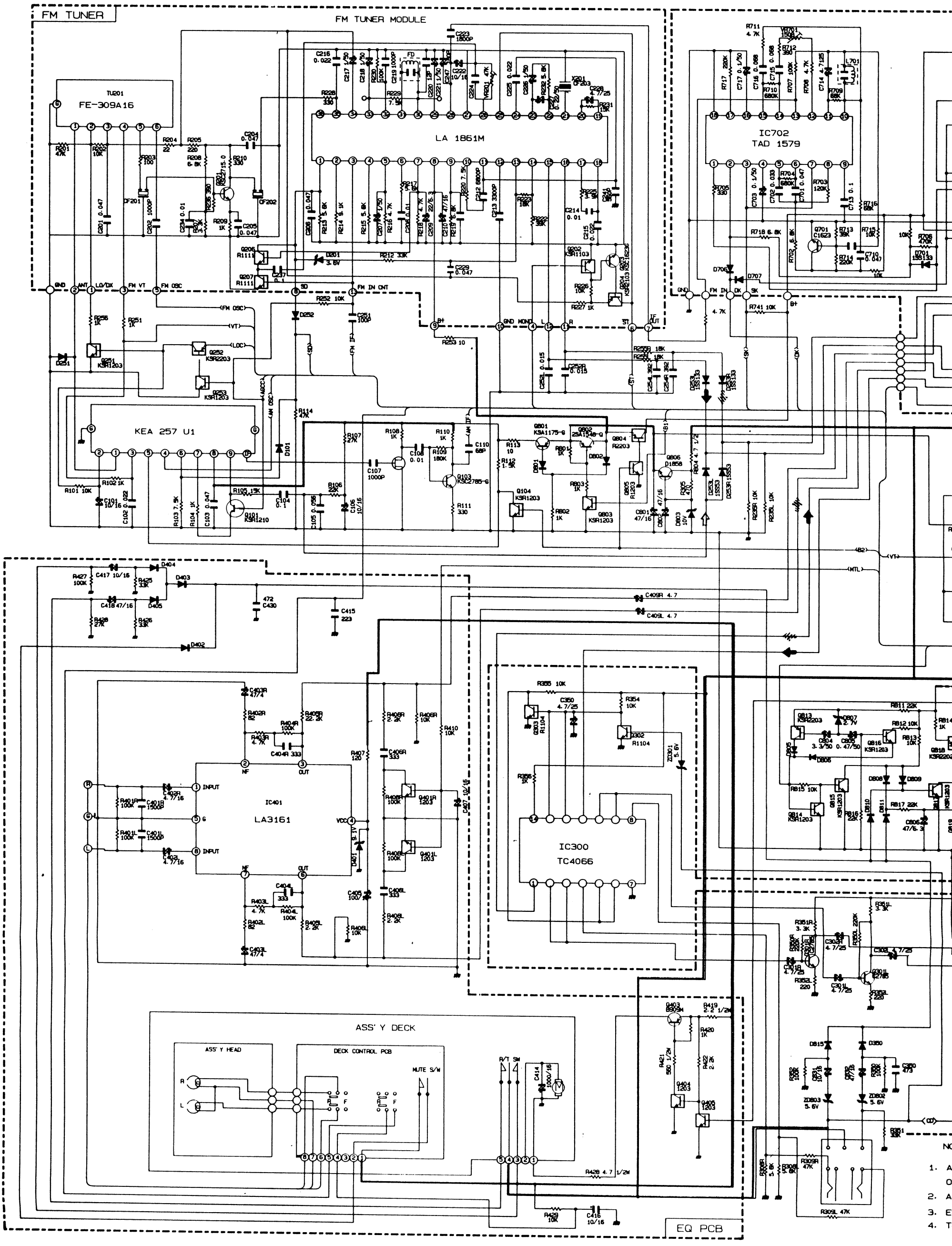
IC701 (TDA1579)

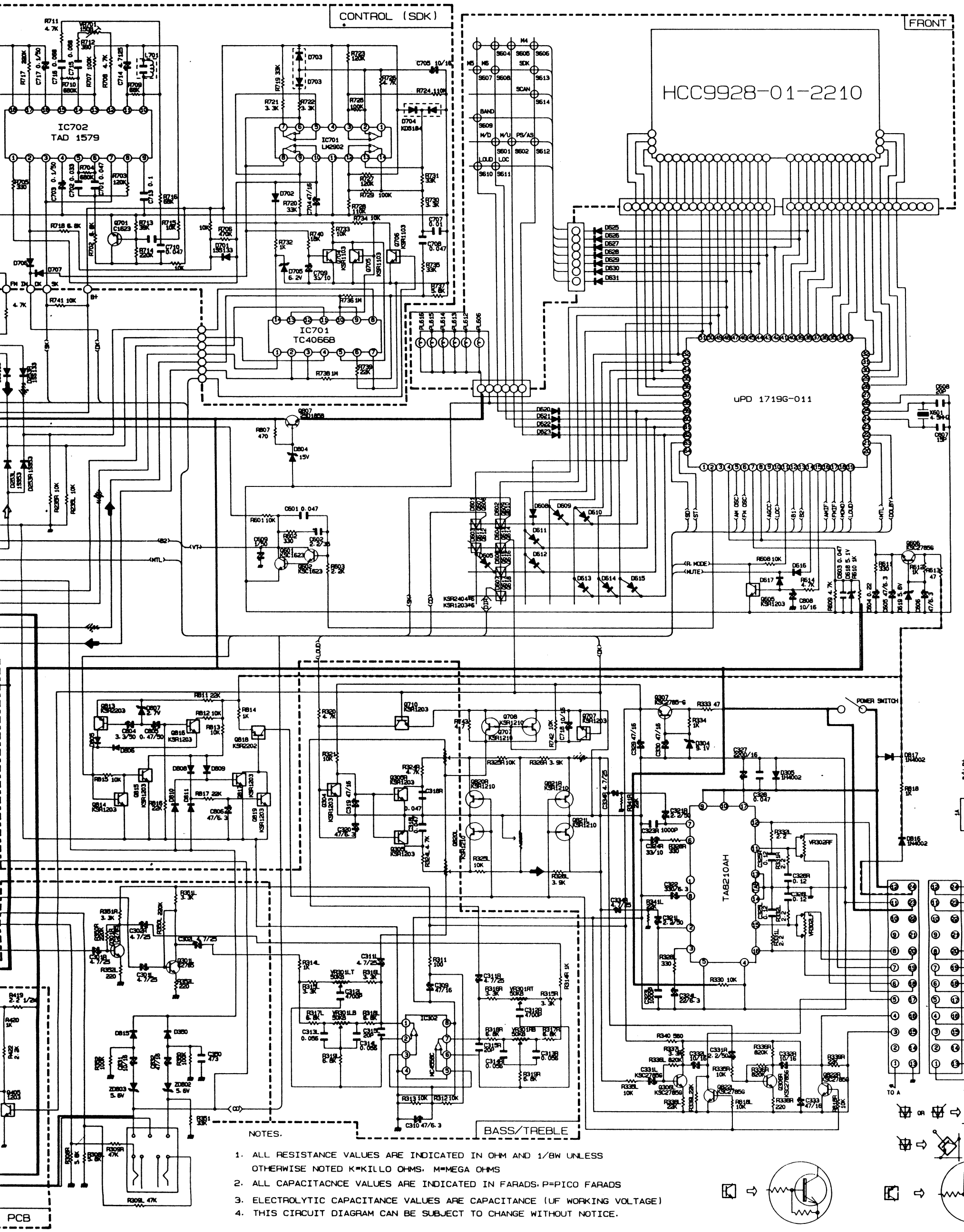
PIN	VOLT	PIN	VOLT
1	0	10	4.1
2	0	11	5.0
3	7.0	12	4.0
4	6.8	13	4.1
5	4.1	14	4.1
6	4.1	15	4.1
7	8.3	16	7.0
8	4.1	17	3.4
9	5.0	18	0

■ CIRCUIT BLOCK DIAGRAM



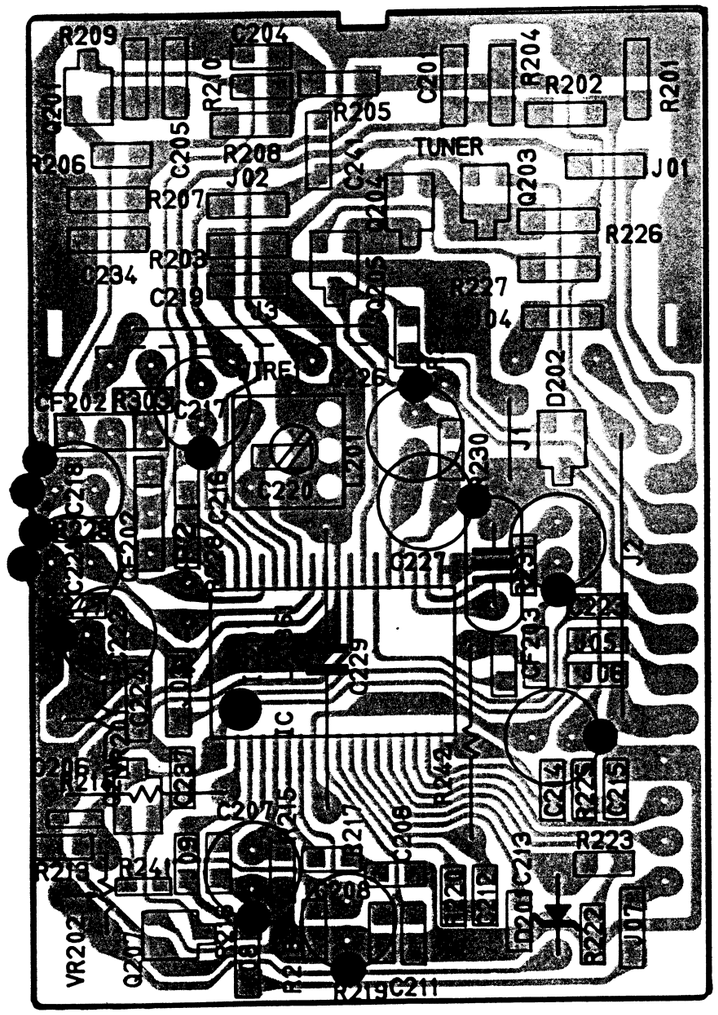
SECHEMATIC DIAGRAM



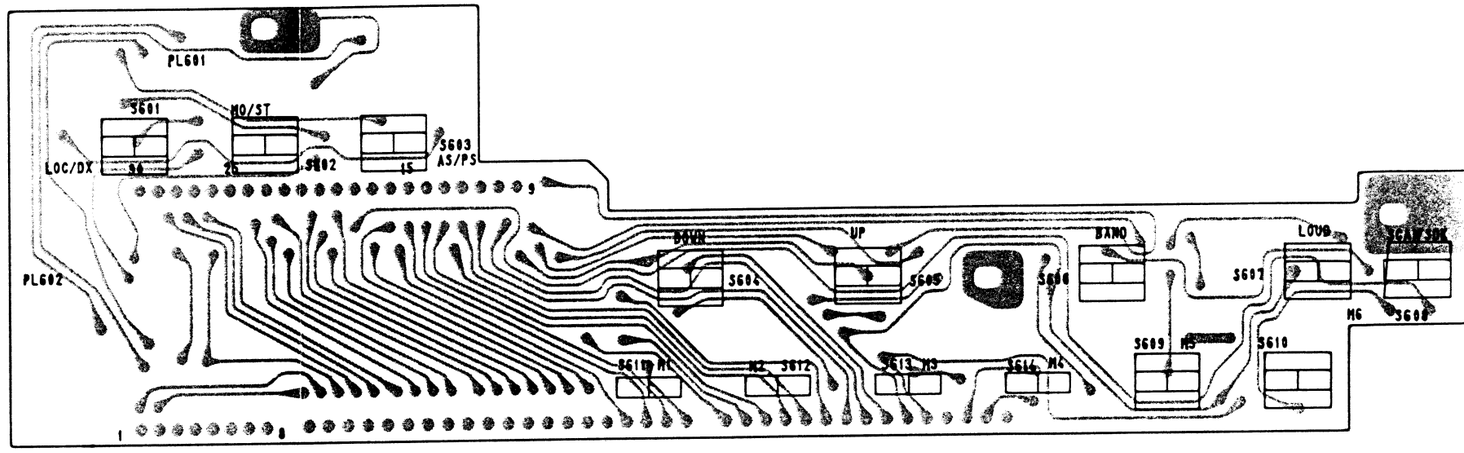

CONTROL (SDK)
FRONT
HCC9928-01-2210
IC702
TAD 1579
IC701
LM2902
IC701
TC4066B
uPD 1719G-011
TAB210AH
IC302
BASS/TREBLE
POWER SWITCH
PCB
TO A
SP LEFT FRONT
SP LEFT COMMON
SP LEFT REAR
SP RIGHT FRON
SP RIGHT COMMON
SP RIGHT REAR
LINE OUT LEFT
LINE OUT RIGH
LINE OUT GND
ANT B+
B/U B+
ACC B+
GND
NOTES.
1. ALL RESISTANCE VALUES ARE INDICATED IN OHM AND 1/8W UNLESS OTHERWISE NOTED K=KILLO OHMS, M=MEGA OHMS
2. ALL CAPACITACNCE VALUES ARE INDICATED IN FARADS, P=PICO FARADS
3. ELECTROLYTIC CAPACITANCE VALUES ARE CAPACITANCE (UF WORKING VOLTAGE)
4. THIS CIRCUIT DIAGRAM CAN BE SUBJECT TO CHANGE WITHOUT NOTICE.

■ PATTERN & MARKING DIAGRAM

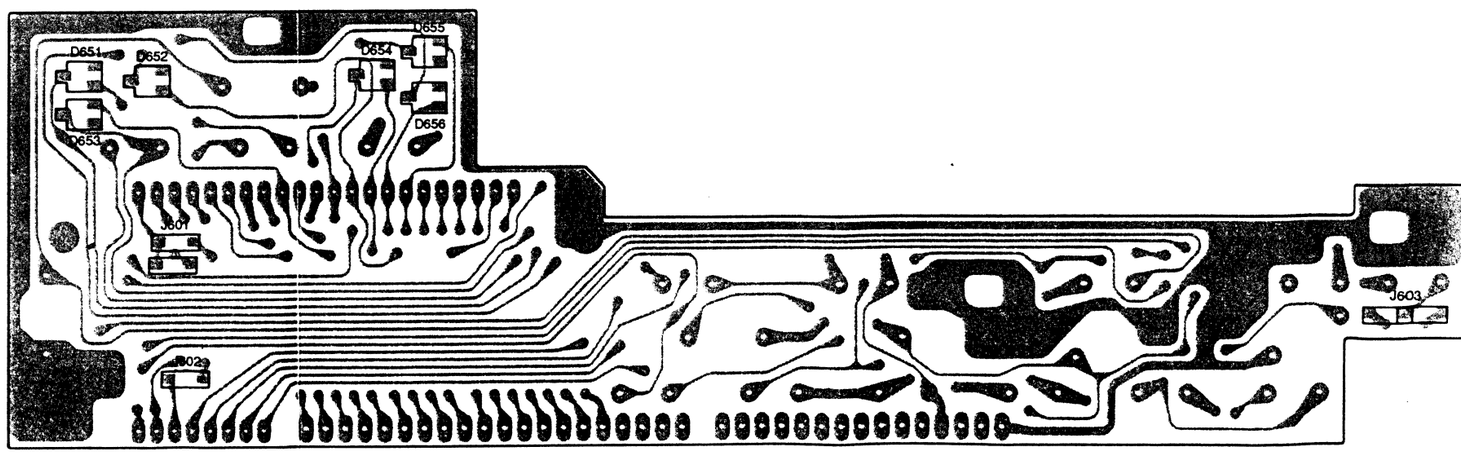
FM PCB



FRONT PCB

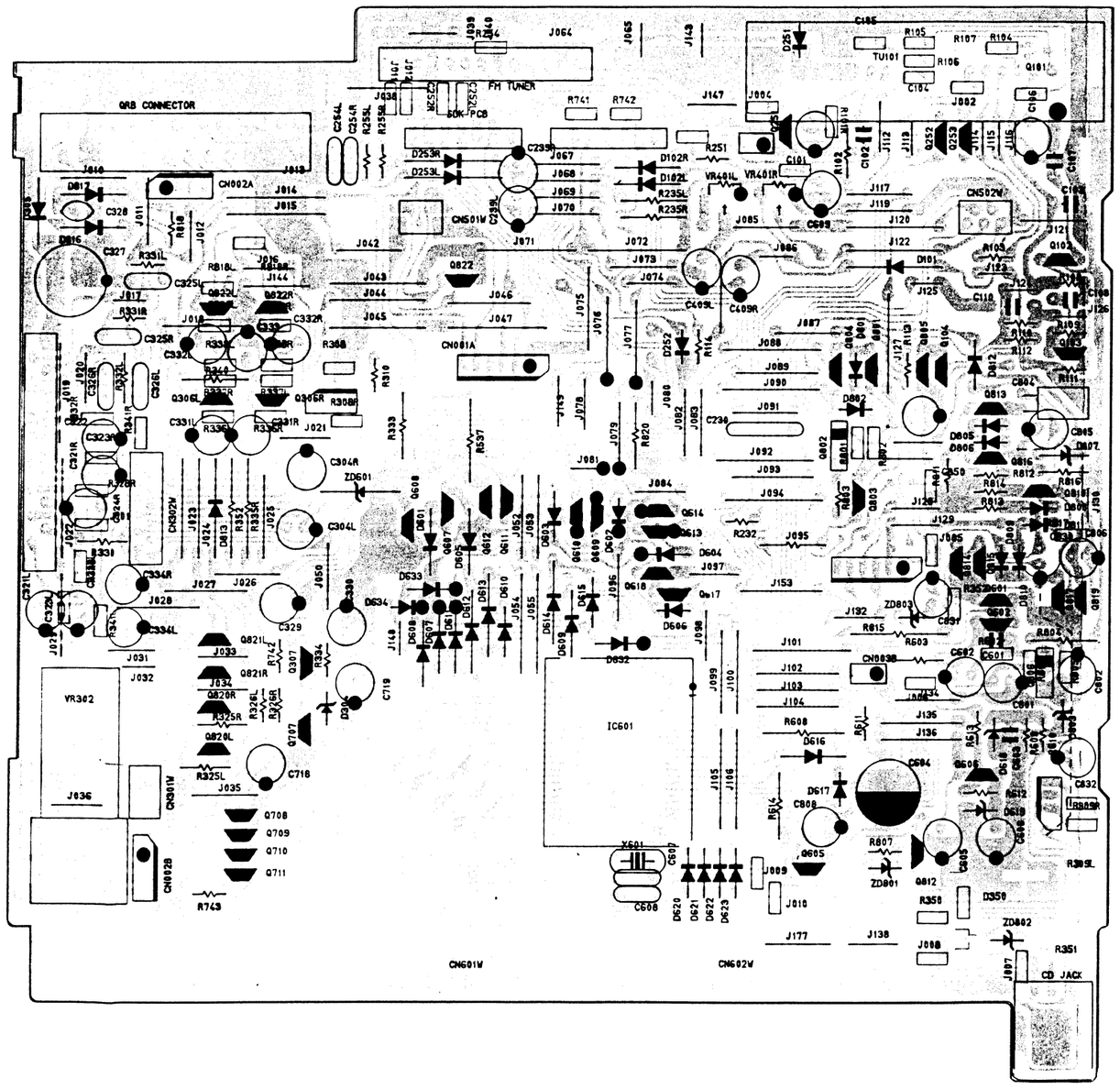


FRONT PCB

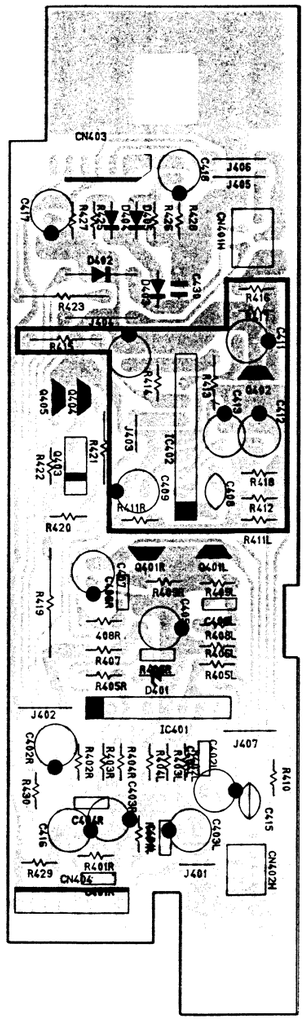


■ PATTERN & MARKING DIAGRAM

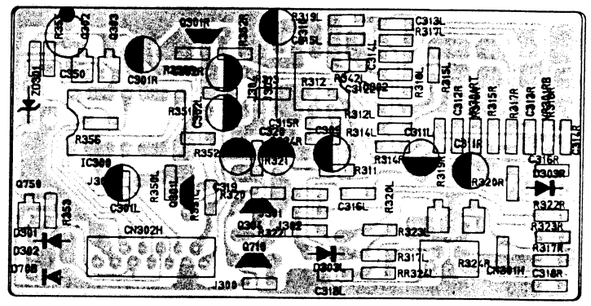
MAIN PCB



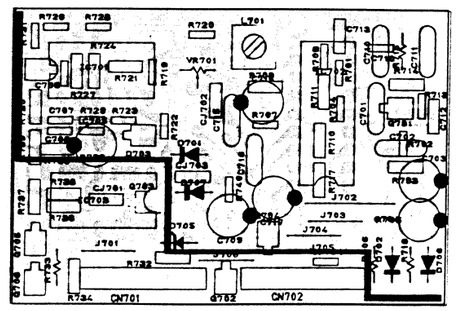
DECK PCB



BASS/TRE PCB

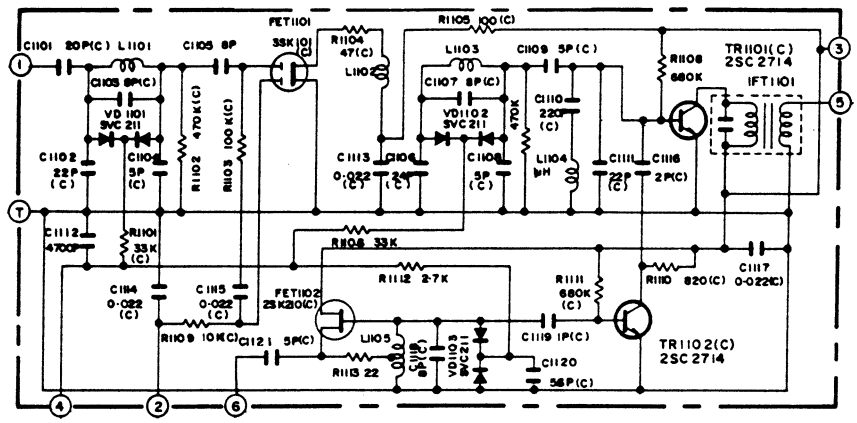


SWITCHING PCB

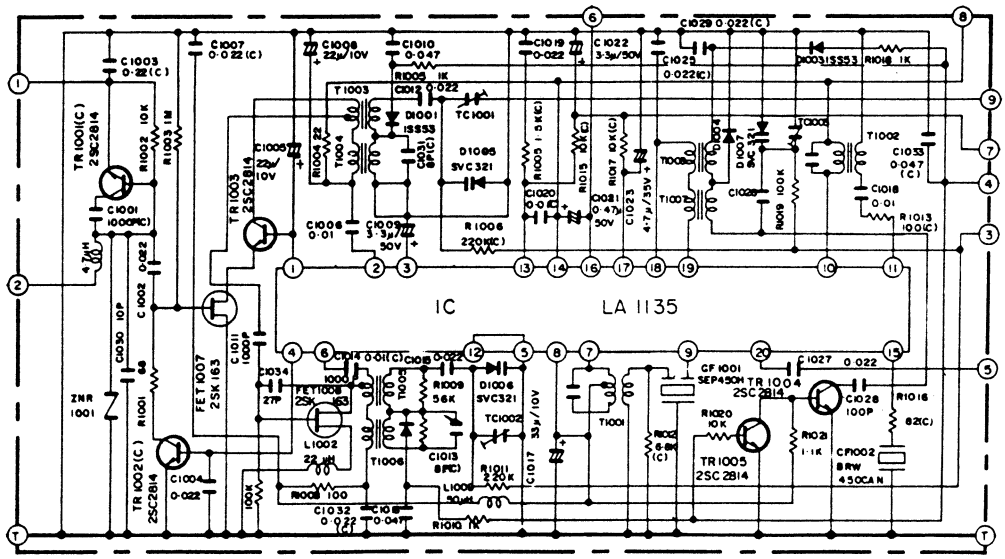


Tuner Schematic Diagram

FM



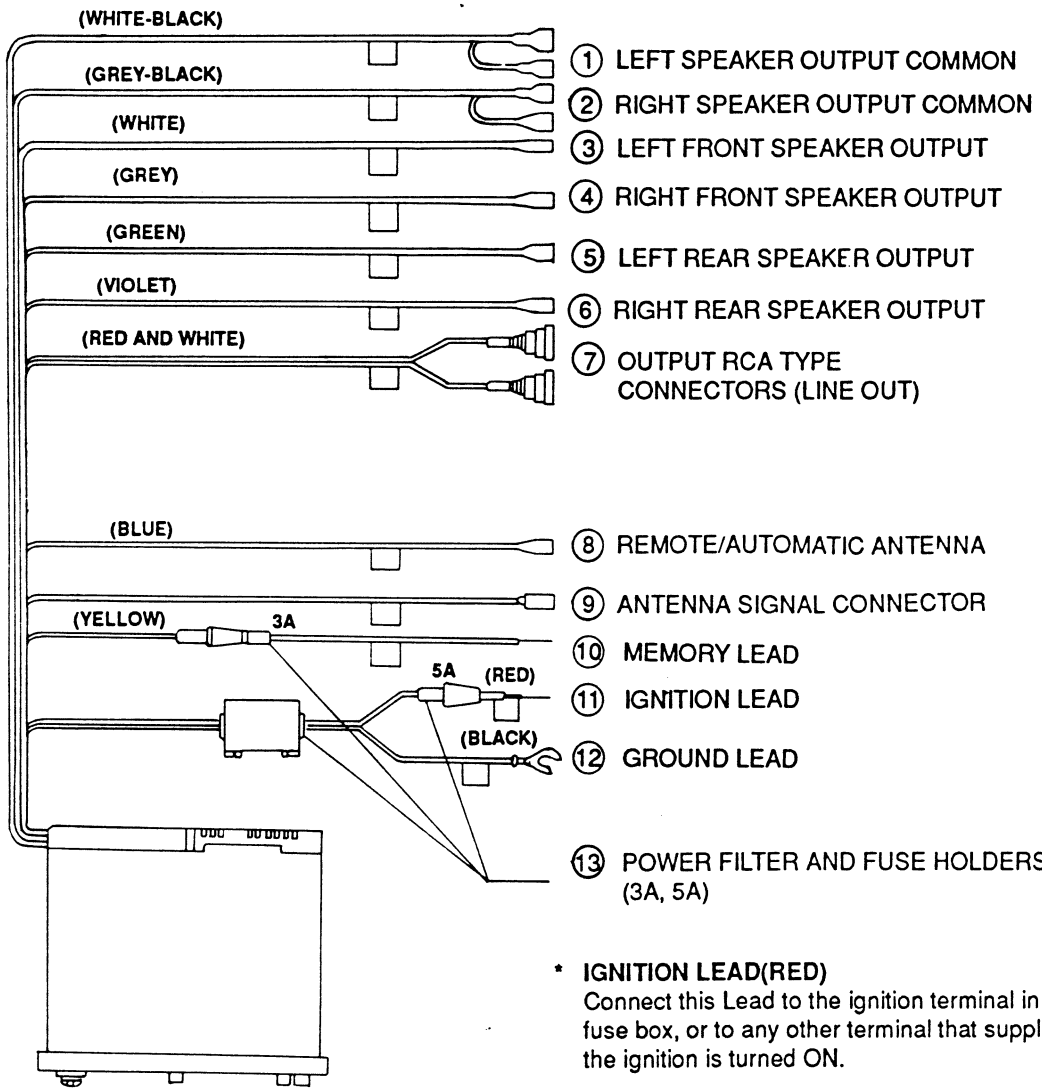
MW/LW



CONNECTIONS

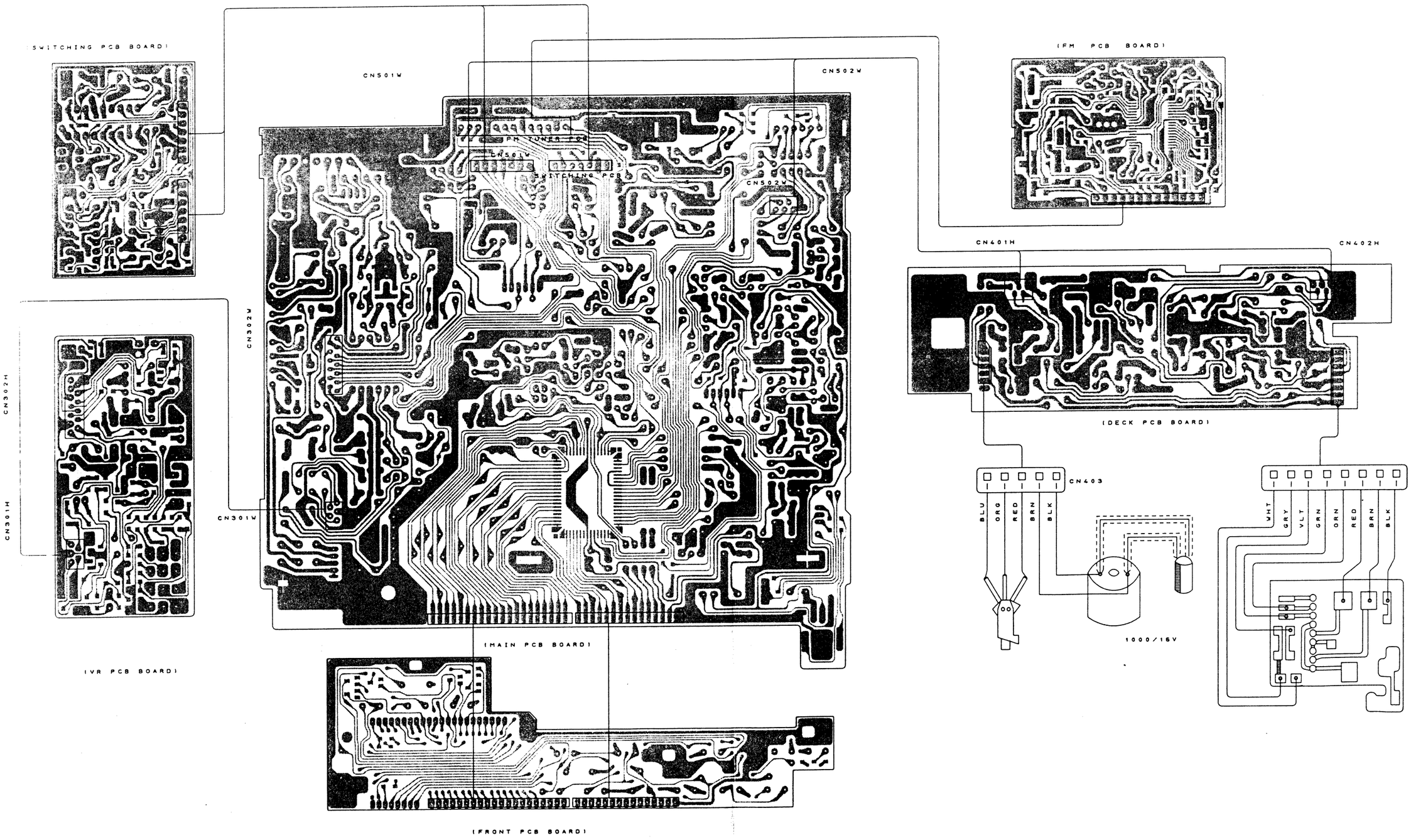
CONNECTIONS

CAUTION:
Before connecting any leads, set the unit to the "off" position by turning the power ON/OFF switch counter-clockwise until the click of the OFF position is heard.

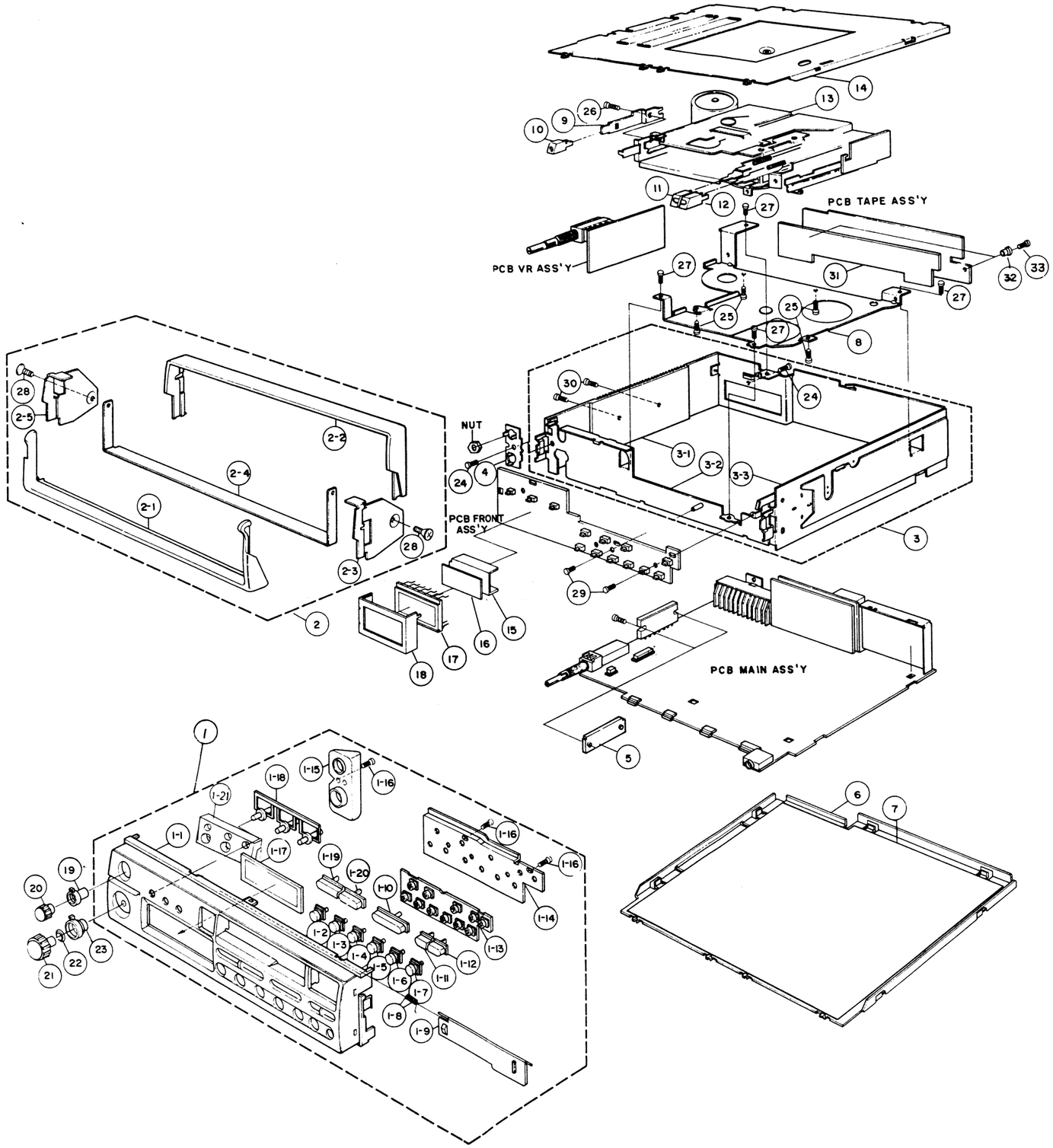


* **IGNITION LEAD(RED)**
Connect this Lead to the ignition terminal in the vehicle's fuse box, or to any other terminal that supplies +12V when the ignition is turned ON.

■ WIRING DIAGRAM

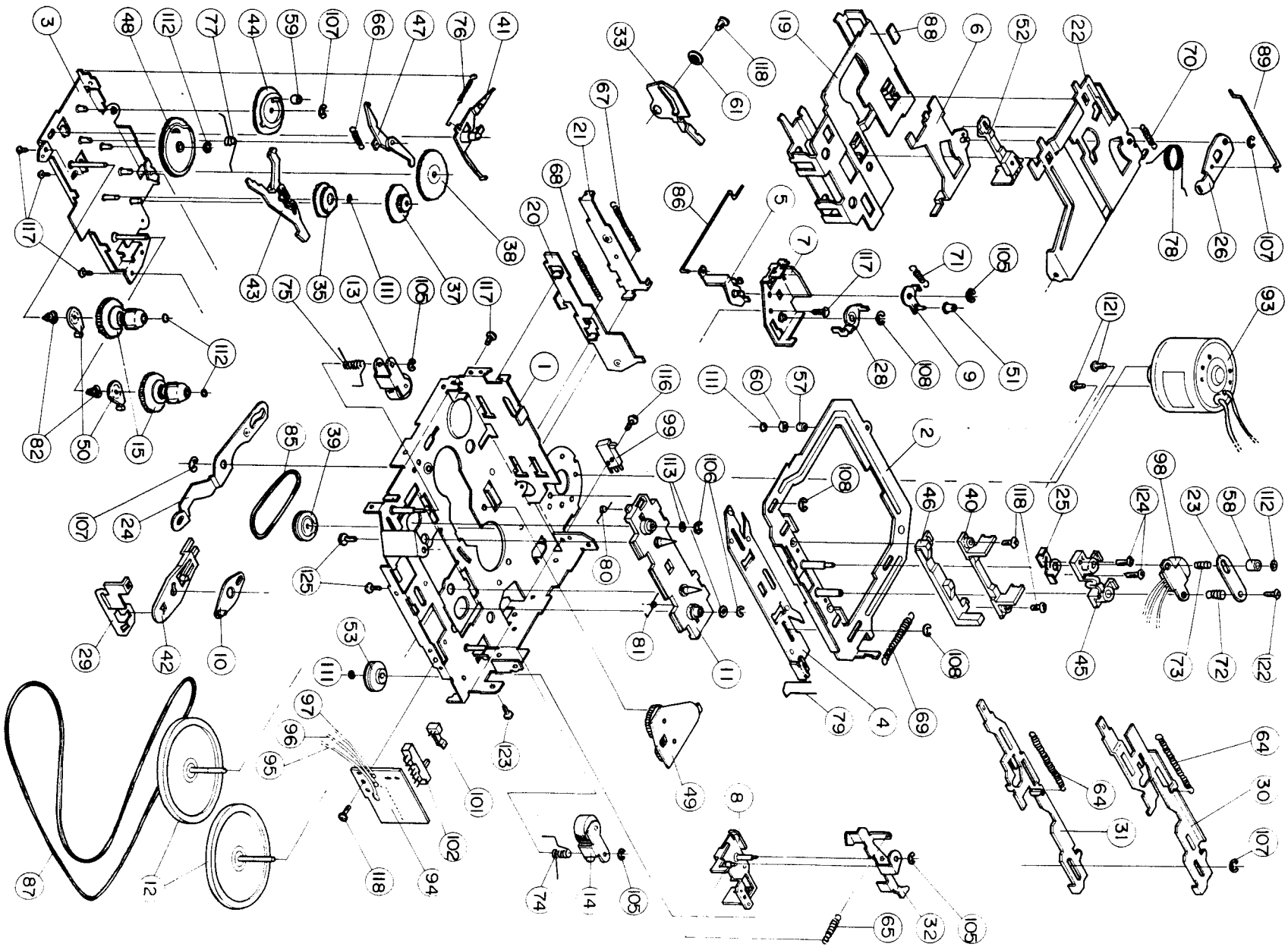


■ EXPLODED VIEW



■ DECK EXPLODED VIEW

DECK MODEL : CDS-36MS



■ PARTS LIST

1. ELECTRONIC PARTS

MAIN SECTION

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
TU101	14519-812-030	AM TUNER ASSY ; KEA257UI MW/LW ETR MARVEL	1
TU102	14519-804-100	FM TUNER ASSY ; FE 309-A16	1
IC201	12119-203-610	IC-FM PROCESSOR ; LA1861M	1
IC302	12119-401-170	IC-OP AMP ; MC4558C	1
IC303	12109-401-870	IC-POWER ; TA8210AH	1
IC401	12119-201-690	IC-EQ ; LA3161	1
IC601	12109-323-210	IC-DTS ; μPD1719G-011	1
IC703, IC300	12119-401-720	IC-SWITCHING ; TC4066BP	2
Q801	12139-103-450	TRANSISTOR ; KSA1175Y TAPING	1
Q103,Q306R/L	12139-301-120	TRANSISTOR ; KSC2785Y TAPING	11
Q307, Q601, Q602, Q606	12139-301-120	TRANSISTOR ; KSC2785Y TAPING	
Q822R/L Q301R/L	12139-301-120	TRANSISTOR ; KSC2785Y TAPING	
Q102	12139-601-770	FET ; KSK161Y	1
Q403, Q802	12149-201-500	TRANSISTOR ; 2SB1237Q-TV2	2
Q806, Q812, Q811	12149-403-430	TRANSISTOR ; 2SD1858Q-TV2	2
Q104, Q251, Q253	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	21
Q304, Q301, Q303	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q401R/L, Q305R/L	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q404, Q405, Q605	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q822, Q608, Q603	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q612, Q614, Q618	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q710, Q803, Q805	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q814, Q815, Q809	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q816, Q817, Q819	12159-301-370	TR-DIGITAL ; KSR1203 TAPING	
Q820R/L, Q821R/L	12159-301-400	TR-DIGITAL ; KSR1210 TAPING	4
Q252, Q804, Q809	12159-301-410	TR-DIGITAL ; KSR2203 TAPING	5
Q813, Q818	12159-301-410	TR-DIGITAL ; KSR2203 TAPING	
Q607, Q609, Q611	12159-301-510	TR-DIGITAL ; KSR2204 TAPING	5
Q613, Q617	12159-301-510	TR-DIGITAL ; KSR2204 TAPING	
D101, D102R/L, D251	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	43
D252, D253R/L, D302, D301	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D303R/L, D402, D403	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D404, D405, D601	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D602, D603, D604	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D606, D607, D605	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D608, D609, D610	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D611, D612, D613	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D614, D615, D616	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D617, D620, D621	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D622, D623, D708	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D801, D802, D805, D806	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D808 D810, D811	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	
D812, D813, D809, D816	12169-301-400	DIODE-SWITCH ; IN4148M ROHM (SMALL)	

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
D305, D817	12169-201-090	DIODE-RECTIFIER ; IN4002 TAPE	2
D201	12169-404-770	DIODE-ZN ; 500MW UZ-3.6 BSA TAPING	1
D304, D401	12169-404-840	DIODE-ZN ; 500MW UZ-9.1 BSC TAPING	2
D618	12169-404-780	DIODE-ZN ; 500MW UZ-5.1 BSB TAPING	1
D619, ZD802, 803, 301	12169-404-790	DIODE-ZN ; 500MW UZ-5.6 BSB TAPING	4
D803	12169-404-860	DIODE-ZN ; 500MW UZ-10 BSC TAPING	1
ZD801	12169-403-560	DIODE-ZN ; 500MW UZ-15 BSB TAPING	1
D807	12169-404-760	DIODE-ZN ; 500MW UZ-2.7 BSA	1
Q101	11139-801-091	CHIP-TRANSISTOR ; KSR1110	1
Q203, Q705, Q706,	11139-801-182	CHIP-TRANSISTOR ; KSR1103	4
Q810	11139-801-182	CHIP-TRANSISTOR ; KSR1103	
Q201	11139-801-300	CHIP-TRANSISTOR ; KSC2715 [BI]	1
Q204	11139-801-032	CHIP-TRANSISTOR ; KSC1623L	1
Q205	11139-801-101	CHIP-TRANSISTOR ; KSR2103	1
Q206, Q207	11139-801-220	CHIP-TRANSISTOR ; KSR1111 [R11]	2
Q619	11139-801-060	CHIP-TRANSISTOR ; KSR2104 [R54]	1
D350, D651, D652	12169-102-320	CHIP-DIODE ; KDS184-STI	7
D653, D654, D655	12169-102-320	CHIP-DIODE ; KDS184-STI	
D656	12169-102-320	CHIP-DIODE ; KDS184-STI	
J001, J002, J009	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	23
J004, J005, J010	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J011, J012, J006	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J007, J008	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J300, J301, J302	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J701, J01	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J02, J03, J04	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J07, J08	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J601, J602	11118-001-000	CHIP-RESISTOR ; RX3911G 000J-TA/MCR 18	
J05, J06, J09,	11119-101-000	CHIP-RESISTOR ; SCR2012 PA.P 1/8 0-J	3
R311	11118-001-101	CHIP-RESISOTR ; RX3911G 101J	1
R104, R209, R227	11118-001-102	CHIP-RESISTOR ; RX3911G 102J-TA/MCR 18	10
R314R/L, R732	11118-001-102	CHIP-RESISTOR ; RX3911G 102J-TA/MCR 18	
R801, R802	11118-001-102	CHIP-RESISTOR ; RX3911G 102J-TA/MCR 18	
R356, R353	11118-001-102	CHIP-RESISTOR ; RX3911G 102J-TA/MCR 18	
R354, R355, R110R	11118-001-103	CHIP-RESISTOR ; RX3911G 103J-TA/MCR 18	11
R406R, R734, R312	11118-001-103	CHIP-RESISTOR ; RX3911G 103J-TA/MCR 18	
R321, R818R/L, R313, R601,	11118-001-103	CHIP-RESISTOR ; RX3911G 103J-TA/MCR 18	
R254, R352, R350	11118-001-104	CHIP-RESISTOR ; RX3911G 104J-TA/MCR 18	3
R308R/L	11118-001-104	CHIP-RESISTOR ; RX3911G 153J-TA/MCR/18	2
R338R/L, R352R/L	11118-001-104	CHIP-RESISTOR ; RX3911G 154J-TA/MCR/18	1
R205, R350R/L	11118-001-221	CHIP-RESISTOR ; RX3911G 221J-TA/MCR/18	2
R602	11118-001-222	CHIP-RESISTOR ; RX3911G 222J-TA/MCR/18	1

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
R734, R739	11118-001-223	CHIP-RESISTOR ; RX3911G 223J-TA/MCR 18	8
R106, R339R/L	11118-001-223	CHIP-RESISTOR ; RX3911G 223J-TA/MCR 18	
R341R/L, R817	11118-001-223	CHIP-RESISTOR ; RX3911G 223J-TA/MCR 18	
R332R	11118-001-229	CHIP-RESISTOR ; RX3911G, 229J	1
R107	11118-001-273	CHIP-RESISTOR ; RX3911G 273J-TA/MCR 18	1
R328R/L	11118-001-331	CHIP-RESISTOR ; RX3911G 331J-TA/MCR 18	2
R207, R315R/L, R351R/L	11118-001-332	CHIP-RESISTOR ; RX3911G 332J-TA/MCR 18	9
R316R/L, R337R/L	11118-001-332	CHIP-RESISTOR ; RX3911G 332J-TA/MCR 18	
R351	11118-001-333	CHIP-RESISTOR ; 33K RX3911G 333J-TA/MCR 18	1
R320R/L	11118-001-471	CHIP-RESISTOR ; RX3911G 471J-TA/MCR 18	2
R324R/L, R320	11118-001-472	CHIP-RESISTOR ; RX3911G 472J-TA/MCR 18	3
R201, R309R/L	11118-001-473	CHIP-RESISTOR ; RX3911G 473J-TA/MCR 18	3
R208, R317R/L, R105	11118-001-682	CHIP-RESISTOR ; RX3911G 682J-TA/MCR 18	8
R318R/L, R319R/L	11118-001-682	CHIP-RESISTOR ; RX3911G 682J-TA/MCR 18	
R336R/L	11118-001-824	CHIP-RESISTOR ; RX3911G 824J-TA/MCR 18	2
R203	11119-101-101	CHIP-RESISTOR ; MCR10, 2012S 100-J	1
R217	11119-101-123	CHIP-RESISTOR ; SCR2012J 123 100CT	1
R223	11119-101-183	CHIP-RESISTOR ; SCR2012 18K-J	1
R229	11119-101-223	CHIP-RESISTOR ; MCR10, 2012S 22K-J	1
R210, R228	11119-101-331	CHIP-RESISTOR ; MCR10 201	2
R206	11119-101-391	CHIP-RESISTOR ; 2012 390J	1
R225	11119-101-392	CHIP-RESISTOR ; MCR102012S 3.9K-J	1
R222	11119-101-393	CHIP-RESISTOR ; SCR2012 10V 39K-J	1
R216, R218	11119-101-473	CHIP-RESISTOR ; MCR 10, 2012S 47K-J	2
R213, R215, R230	11119-101-562	CHIP-RESISTOR ; MCR10 2012S 5.6K-J	3
R219, R220	11119-101-682	CHIP-RESISTOR ; SCR2012 682 100CT	2
R231	11119-101-153	CHIP-RESISTOR ; SCR2012J 153 100CT	1
C850	11128-001-820	CHIP-CERAMIC ; C3216PA.P 50SL 82P	1
C219, C323R/L	11128-004-102	CHIP-CERAMIC ; C3216 PA.P 50 x 7R 102-K	3
C104, C712, C713	11128-004-104	CHIP-RESISTOR ; 0.1 µF C3216PA.P 50 x 7R 104-K	3
C401R/L C712, C713	11128-004-152	CHIP-CERAMIC ; C3216 PA.P 50x 7R 152-K	2
C253R/L	11128-004-153	CHIP-CERAMIC ; C3216 PA.P 50x 7R 153-K	2
C315R/L	11128-004-200	CHIP-CERAMIC ; C3216 PA.P 50x 7R 200-K	2
C224	11128-004-222	CHIP-CERAMIC ; C3216 PA.P 50x 7R 222-K	1
C312R/L	11128-004-472	CHIP-CERAMIC ; C3216 PA.P 50x 7R 4.7-K	2
C201	11128-004-473	CHIP-CERAMIC ; C3216 PA.P 50x 7R 473-K	5
C205, C318R/L, C105	11128-004-473	CHIP-CERAMIC ; C3216 PA.P 50x 7R 473-K	
C313R/L, C314R/L	11128-004-563	CHIP-CERAMIC ; SMC3216B 563K 500P	4
C404R/L, C406 R/L	11128-004-333	CHIP-CERAMIC ; C3216 PA.P 50 x 7R 333-K	4
C234	11128-004-103	CHIP-CERAMIC ; C3216 PA.P 50 x 7R 103-K	1
C237	11129-001-104	CHIP-CERAMIC ; 2012 SL 104-K 50V	1
C220	11129-001-120	CHIP-CERAMIC ; SMC2012 120K	1
C208, C214	11129-004-103	CHIP-CERAMIC ; SMC2012B 103K 500P	2
C223	11129-004-182	CHIP-CERAMIC ; SMC2012B 182K 500P	1
C211	11129-004-222	CHIP-CERAMIC ; C2012 x 7R 1H 222K	1

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
C215, C216	11129-004-223	C-CHIP-CERAMIC ; SMC2012B 223K 500P	2
C213	11129-004-332	C-CHIP-CERAMIC ; SMC2012B 332K 500P	1
C204, C206	11129-004-473	C-CHIP-CERAMIC ; C2012B 473K	2
C212	11129-004-682	C-CHIP-CERAMIC ; C2012 X7R 1H 682K	1
VR 201	11249-113-170	VOLUME-SEMI ; RH0614C, 100 473 (47KB)	1
VR 301	11229-001-010	VR-BASS/TRE ; TP126H26	1
VR 302	11229-001-020	VR-ROUND ; TP168FJ189K-L	1
PCB MAIN	13014-585-800	PCB MAIN ; Q4800 247 x 197 x 1.6T, 1-VO	1
PCB FRONT	13014-585-810	PCB FRONT ; Q4800 163 x 181 x 1.6T EPOXY	1
PCB FM	13014-586-020	PCB FM ; 108 x 197 x 1.6T, 1-VO	1
QRB FLUG	13079-500-870	QRB CONNECTOR PLUG ASSY ; 24P Q4800/Q3800	1
QRB SOCKET	13079-500-600	QRB CONNECTOR SOCKET ASSY ; 24P Q9800	1
CN001	13052-901-300	CONNECTOR/B, L ; W-A2406/W-T0844-11 #01 1007 # 28 100	1
CN002	13052-901-280	CONNECTOR-WIRE/S, S ; 5294-04/5295-04	1
CN003	13052-901-240	CONNECTOR-WIRE/S, L ; JC25-02HG/1533 #28	1
CN004	13089-893-120	CONNECTOR-WIRE/B, L ; 3018-03/0222-99-808 #2547 #28 200	1
CN403	13052-901-220	CONNECTOR-WIRE ; 51004-05/50011-8000 100M/M	1
CN404	13052-901-230	CONNECTOR-WIRE ; 51004-08/5001-8000 100M/M	1
CN501W, CN502W	13349-162-050	CONNECTOR WAFER ; 5R-JE	3
CN301W	13349-162-050	CONNECTOR WAFER ; 5R-JE	
CN302W	13349-162-130	CONNECTOR WAFER ; 13R-JE	1
CN501H, CN502H	13349-344-050	CONNECTOR HOUSING ; 5PS-JE	3
CN301H	13349-344-050	CONNECTOR HOUSING ; 5PS-JE	
CN302H	13349-344-130	CONNECTOR HOUSING ; 13PS-JE	1
CN701, CN702	13349-166-070	CONNECTOR WAFER ; 5097-7P	2
W01	13349-166-130	CONNECTOR WAFER ; 5097-13P	1
CF1, CF2	14529-301-790	FILTER-CERAMIC ; SFE 10.7MS3CH-A	2
C201	12619-690-067	COIL FM DETECTOR ; A5291AC-K5445 BS	1
X601	14539-003-010	CRYSTAL-UNIT ; HC18-U 4.5MHz	1
C604	11609-116-224	CAD-GOLD ; 0.22F/5.5V EECS5R5H224	1
CF 203	14529-301-940	RESONATOR CERAMIC ; CSB456F23	1
LCD601	12339-102-190	LCD ; HCC9928-01-2210	1
PL601 ~ PL606	12059-151-400	LAMP PILOT ; 14V 50MA, AMBER	6
S611 ~ S614	13559-901-150	TACT-SWITCH ; SKQCAE 0004	4
S601 ~ S610	13559-901-100	TACT-SWITCH ; SKHVBE 029A	10
FUSE	14709-033-270	FUSE ; UL/CSA 61S 125V 3A	1
FUSE	14709-031-310	FUSE ; NOR 125V 5A 30 UL/CSA	1

MECHANICAL PARTS

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
1	15009-540-810	ASSY ESCUTCHEON ; Q4800L	1
1-1	16001-613-610	ESCUTCHEON ; ABS BLACK Q4800	1
1-2	17623-584-760	BUTTON PRESET (1/MT) ; ACRYL Q4800	1
1-3	17623-584-770	BUTTON PRESET (2) ; ACRYL Q4800	1
1-4	17623-584-780	BUTTON PRESET (3) ; ACRYL Q4800	1
1-5	17623-584-730	BUTTON PRESET (4) ; ACRYL CLEAR	1
1-6	17623-584-740	BUTTON PRESET (5) ; ACRYL CLEAR	1
1-7	17623-584-750	BUTTON PRESET (6) ; ACRYL CLEAR	1
1-8	16674-573-700	SPRING -DOOR ; STSC 304-WPB PI0.29 (Q4800)	1
1-9	17643-526-120	DOOR CASSETTE ; PC CLEAR	1
1-10	17624-634-310	BUTTON BAND ; ACRYL Q4800	1
1-11	17624-630-400	BUTTON LOUD ; ACRYL Q4800	1
1-12	17624-630-410	BUTTON SCAN ; ACRYL Q4800	1
1-13	16153-502-100	CUSHION-RUBBER ; SILICON RUBBER Q3800 Q4800	1
1-14	17613-502-510	REFLECTOR BUTTON ; ACRYL Q4800	1
1-15	17614-505-810	REFLECTOR VOL ; ACRYL Q4800	1
1-16	17158-117-065	SCREW-CH ; TAP 1.7 x 6 FE FN	3
1-17	17644-521-010	WINDOW LCD ; ACRYL Q4800	1
1-18	17623-585-910	BUTTON DX/LO ; ACRYL Q4800	1
1-19	17623-583-850	BUTTON FUNCTION (DOWN) ; ACRYL Q4800	1
1-20	17623-583-860	BUTTON FUNCTION (UP) ; ACRYL Q4800	1
1-21	17614-505-900	ILLUMI-BUTTON ; ACRYL MILKY, Q4800, Q3800	1

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
2	15009-536-300	ASSY HANDLE ; CAR STEREO SAMSUNG	1
2-1	16031-502-600	COVER HANDLE (A) ; ABS BLACK	1
2-2	16132-503-000	COVER HANDLE (B) ; SPC-1 N2 PLATING	1
2-3	16622-503-100	HANDLE BRKT (R) ; SECC-P t = 0.8 US	1
2-4	16122-537-700	HANDLE FRAME (B) ; SECC t = 1 BLK	1
2-5	16122-503-000	HANDLE BRKT (L) ; SECC t = 1 BLK	1
3	15009-541-110	CHASSIS ASSY MAIN ; Q4800	1
3-1	16123-515-600	CHASSIS SIDE (L) ; SECC T1.0 Q4800	1
3-2	16021-505-510	CHASSIS FRONT ; SECC T1.0 Q4800	1
3-3	16120-500-100	CHASSIS SIDE (R) ; SECC-P T1.0	1
4	16634-515-800	HOLDER VOLUME ; SECC T1.0	1
5	16624-568-910	BRACKET-IC ; SECC T0.8 Q3300	1
6	16131-500-700	CASE BOTTOM ; SECC-P T0.6	1
7	16854-502-200	INSULATION MAIN ; FIBER SHEET T0.25 Q9800	1
8	16621-500-800	DECK BRACKET (Q6800) ; SECC T1.0	1
9	16624-573-610	LEVER EJECT ; SECC T0.8 ; Q4800, Q3800	1
10	17623-585-000	DECK KNOB (EJECT) ; ABS BLACK	1
11	17623-584-800	DECK KNOB (REW) ; ABS BLACK	1
12	17623-584-900	DECK KNOB (FF) ; ABS BLACK	1
13	14929-118-030	DECK MECHANISM ; CDS 36 (SHIN WA)	1
14	16131-500-600	CASE UPPER ; SECC-P T0.6	1

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
15	17613-508-810	REFLECTOR LCD ; ACRYL Q4800	1
16	17613-566-110	FILTER-LCD ; TREPAL MILKY T0.1	
17	12339-102-190	LCD ; HCC9928-01-2210	1
18	16133-506-800	COVER LCD ; SPTE T0.5 Q4800	1
19	17624-630-600	KNOB BASS ; ABS BLACK	1
20	17624-630-700	KNOB TREBLE ; ABS BLACK.	1
21	17623-583-600	KNOB-VOLUME ; ABS BLACK	1
22	16674-574-100	RING SPRING KNOB ; STSC304-WPA PI0.9	1
23	17623-588-800	KNOB FADER ; ABS BLACK	1
24	17048-130-061	SCREW-RH ; +M3 x 6 FE FZY DT-850	2
25	17008-126-041	SCREW-PH ; +M2.6 x 4 FE FZY	4
26	17048-126-035	SCREW-RH ; +M2.6 x 3 FE FN	1
27	17098-126-041	SCREW TAP TITE-PH ; +M2.6 x 4 FE FZY	7
28	17018-150-083	SCREW FH ; +M5 x 8 FE FZB	2
29	17158-320-061	SCREW-TAP TITE BH ; 3-2 x 6 FE FZY	2
30	17048-126-121	SCREW-RH ; U2.6 x 12 FE FZY	2
32	15114-506-010	SPACER-TAPE PCB ; BSBME PI5	2
33	17048-130-061	SCREW-RH ; +M3 x 6 FE FZY DT-850	2

SDK SECTION ("D" VERSION ONLY)

IC AND CHIP TRANSISTORS

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
IC701	12119-102-940	IC-SK ; TDA1579	1
IC702	12119-203-480	IC-OP, AMP ; LM2902	1
Q805, 610, 614	12159-301-370	TR DIGITAL ; KSR1203 TAPING	3
Q804	12159-301-410	TR DIGITAL ; KSR2203 TAPING	1
Q609, 613	12159-301-510	TR DIGITAL ; KSR2204 TAPING	2
Q708, 709, 710, 711	12159-301-400	TR DIGITAL ; KSR1210 TAPING	4
Q701	11139-801-032	TR-CHIP ; KSC 1623L	1
Q703, 704, 750	11139-801-182	TR-CHIP ; KSR1103	3

DIODES AND SEMI-VR

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
D704	12169-102-330	DIODE-CHIP ; KSD181-T1	1
D703	12169-102-320	DIODE-CHIP ; KSD184-T1	1
D701, 702, 706, 707, 710, 711	12169-301-400	DIODE-SWITCH ; 1N4148M ROHM (SMALL)	6
VR701	11249-102-014	VR-SEMI TAPE-H ; DVN-DJA A03B52 (500)	1

CHIP-RESISTORS

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
CJ703, 300, 706	11118-001-000	R-CHIP ; RX3911G 000J-TA/MCR18	3
R741	11118-001-103	R-CHIP ; RX3911G 103J-TA/MCR18	1
R738, 736	11118-001-105	R-CHIP ; RX3911G 105J-TA/MCR18	2
R703, 727	11118-001-124	R-CHIP ; RX3911G 124J-TA/MCR18	2
R717, 714	11118-001-224	R-CHIP ; RX3911G 224J-TA/MCR18	2
R705	11118-001-331	R-CHIP ; RX3911G 331J-TA/MCR18	1
R721, 735	11118-001-333	R-CHIP ; RX3911G 333J-TA/MCR18	2
R712	11118-001-391	R-CHIP ; RX3911G 391J-TA/MCR18	1
R708, 742	11118-001-472	R-CHIP ; RX3911G 472J-TA/MCR18	2
R711, 355, 357	11118-001-473	R-CHIP ; RX3911G 473J-TA/MCR18	3
R737	11118-001-562	R-CHIP ; RX3911G 562J-TA/MCR18	1
CJ704	11119-101-000	R-CHIP ; SCR2012 PA•P 1/8 O-J	1
R707, 729	11119-101-101	R-CHIP ; MCR10, 2012S 100-J	2
R701	11119-101-103	R-CHIP ; MCR10, 2012S 10K-J	1
R725	11119-101-104	R-CHIP ; MCR10, 2012S 100K-J	1
R703, 723, 728	11119-101-124	R-CHIP ; SCR2012 120K-J	3
R740	11119-101-183	R-CHIP ; SCR2012 18K-J	1
R719, 720, 722, 731	11119-101-333	R-CHIP ; SCR2012J 333 100CT	4
R713	11119-101-393	R-CHIP ; SCR2012 10V 39K-J	1
R726	11119-101-473	R-CHIP ; MCR10, 2012S 47K-J	1
R709, 716, 702	11119-101-683	R-CHIP ; SCR2012J 683 100CT	3
R704	11119-101-684	R-CHIP ; SCR2012J 0684 100CT	1

CHIP-CERAMICS

LOCATION NO.	CODE NO.	DESCRIPTION AND SPECIFICATION	Q'TY
C712, 713	11128-004-104	C-CHIP, CERAMIC ; C3216 PA P 50X7R 104-K	2
C706	11129-004-333	C-CHIP, CERAMIC ; SMC2012B 333K 500P	1
C708	11129-004-473	C-CHIP, CERAMIC ; C2012 473K	1

DECK ASSEMBLY

● **DECK MODEL : CDS-36MS**

***SNA : SERVICE NOT AVAILABLE**

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	REMARK
1		MAIN CHASSIS ASS'Y		SNA
2		HEAD PLATE ASS'Y		SNA
3		REEL BASE ASS'Y		SNA
4		FR CHANGE ARM ASS'Y		SNA
5		CHANGE LEVER(A) ASS'Y		SNA
6		EJECT CAM LOCK ASS'Y		SNA
7		BRACKET(R) ASS'Y		SNA
8	10000-243-008	BRACKET(F) ASS'Y	3-0036-121	SNA
9	10000-243-009	PROGRAM ARM ASS'Y	3-0036-124	SNA

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	REMARK
10		FR ARM(A) ASS'Y		SNA
11		CM BRACKET ASS'Y		SNA
12	10000-243-012	FLY WHEEL ASS'Y	1-0036-601-01	SNA
13	10000-243-013	PINCH ARM(R) ASS'Y	1-0036-611	
14	10000-243-014	PINCH ARM(F) ASS'Y	1-0036-612	
15	10000-243-015	REEL SPINDLE ASS'Y	3-0036-660	
19	10000-243-019	CASSETTE HOLDER	1-0036-103-01	SNA
20		EJECT CAM ASS'Y		SNA
21		EJECT LEVER		SNA
22	10000-243-022	CASSETTE HANGER	1-0036-108-00	SNA
23		SPRING PUSH PLATE		SNA
24		REVERSE LEVER		SNA
25		ADJUSTER CAM		SNA
26		CENTER PLATE		SNA
28		CHANGE LEVER(B)		SNA
29		FR ARM(B)		SNA
30		FE LEVER		SNA
31		REW LEVER		SNA
32	10000-243-032	LOCK ARM	1-0036-113-03	SNA
33		SW ARM		SNA
35	10000-243-035	IDLE GEAR	1-0036-201-00	
36		TU GEAR		SNA
37	10000-243-037	REDUCTION GEAR(A)	1-0036-204-00	
38	10000-243-038	REDUCTION GEAR(B)	1-0036-203-00	SNA
39	10000-243-039	PULLEY GEAR	1-0036-205-00	
40	10000-243-040	TAPE GUIDE	1-0036-206-01	SNA
41	10000-243-041	RATCHET	1-0036-207-01	SNA
42	10000-243-042	FF ARM	1-0036-208-00	SNA
43	10000-243-043	SENSOR ARM	1-0036-209-00	SNA
44	10000-243-044	SELECTOR GEAR	1-0036-210-01	
45	10000-243-045	ADJUSTER ARM	1-0036-211-01	
46		ADJUSTER LINK		SNA
47	10000-243-047	GEAR LOCK ARM	1-0036-213-00	
48	10000-243-048	DETECTOR GEAR	1-0036-214-00	SNA
49	10000-243-049	TU GEAR ARM	1-0036-215-01	
50		DETECTOR CAM		SNA
51		PROGRAM ARM COLLAR		SNA
52	10000-243-052	TAPE HOOKER	1-0058-204-02	
53	10000-243-053	IDLE PULLEY(A)	1-0058-221-01	SNA
57		HP ROLLER(B)		SNA
58		FF ROLLER		SNA
59	10000-243-059	COLLAR	1-0036-318-02	SNA
60		HP ROLLER(A)		SNA
61		SW ARM COLLAR		SNA
62		TU GEAR SHAFT		SNA
64	10000-243-064	FF/REW LEVER SPRING	1-0036-401-01	
65		LOCK LEVER SPRING		SNA
66		GEAR LOCK ARM SPRING		SNA

LOCATION NO.	CODE NO.	DESCRIPTION	SPECIFICATION	REMARK
67	10000-243-067	EJECT LEVER SPRING	1-0036-404-01	
68		EJECT CAM SPRING		SNA
69		HEAD PLATE SPRING		SNA
70		EJECT CAM LOCK SPRING		SNA
71		PROGRAM ARM SPRING		SNA
72		ADJUSTER ARM SPRING(A)		SNA
73		ADJUSTER ARM SPRING(B)		SNA
74		PINCH ARM(F) SPRING		SNA
75		PINCH ARM(R) SPRING		SNA
76	10000-243-076	PATCHER SPRING	1-0036-414-01	SNA
77		SELECTOR GEAR SPRING		SNA
78	10000-243-078	CENTER PLATE SPRING	1-0036-416	
79		SW CHANGE ARM SPRING		SNA
80		EARTH SPRING		SNA
82		BACK TENSION SPRING		SNA
85	10000-243-085	SUB BELT	1-0036-501-00	
86		SELECTOR LINK		SNA
87	10000-243-087	MAIN BELT	1-0036-504-00	
88		C.H.CUSHION RUBBER		SNA
89	10000-243-089	RETURN LINK	1-0058-504-02	SNA
93	10000-243-093	MOTOR ASS'Y	3-0058-710-10	
94	10000-243-094	SW PWB	1-0036-701-00	SNA
95		WIRE(A) BLACK		SNA
96		WIRE(B) RED		SNA
97		WIRE(C) YELLOW		SNA
98	10000-243-098	HEAD (TC860BH)	1-0036-705-00	
99	10000-243-099	POWER SW	1-0036-711-00	
101	10000-243-101	MUTE SW	1-0058-702	
102	10000-243-102	HEAD CHANGE SW (SL132B)	1-0036-707-02	
105		E-RING E-1.5		SNA
106	10000-243-106	E-RING E-1.6 x 3.2 x 0.3	2-171E-032-96	SNA
107		E-RING E-2.0		SNA
108		E-RING E-2.5		SNA
111		POLY WASHER W/N 1.2 x 3 x 0.25		SNA
112		POLY WASHER W/N 1.6 x 3.2 x 0.25		SNA
113	10000-243-113	POLY WASHER 2.1 x 3.2 x 0.25	2-1821-032-D1	SNA
114		M/WASHER		SNA
116		MACHINE + SCREW B-TITE PLAIN #3 M1.7 x 6		SNA
117		MACHINE + SCREW B-TITE PLAIN #3 M2 x 3		SNA
118		MACHINE + SCREW B-TITE PLAIN #3 M2 x 4		SNA
121		MACHINE + SCREW PLAIN #3 M2 x 2.5		SNA
122		MACHINE + SCREW PLAIN #1 M2 x 4		SNA
123		MACHINE + SCREW FLAT #1 M2 x 3		SNA
124		MACHINE + SCREW PLAIN #1 M2 x 5 (P=0.25)		SNA
125		EJECT HOOK SCREW M2 x 5		SNA
126		MACHINE + SCREW S-TITE PLAIN #3 M2 x 4		SNA